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# Beach Changes at Westhampton Beach, New York, 1962-73

by Allan E. DeWall

# MISCELLANEOUS REPORT NO. 79-5 AUGUST 1979



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Repetitive surveys of the above MSL bea						
at Westhampton Beach, on the south shore of						
1973. After the study had begun, a large g						
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data show that shoreline erosion of 2 to 3	meters (6.6 to 9.8 feet) per year					
within and updrift of the groin field was reversed after groin construction;						
shoreline erosion downdrift (west) of the groin field accelerated to at least						

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28 meters (96 feet) per year. Profile lines updrift (east) of the groin field accreted at a rate of 1.10 meters (3.6 feet) per year as measured at the MSL shoreline and showed an increase of 3.68 cubic meters per meter (1.47 cubic yards per foot) per year in sand stored on the beach above MSL. The shoreline within the groin field accreted at a rate of 3.45 meters (11.3 feet) per year and the beach unit volume increased at a rate of 11,92 cubic meters per meter (4.75 cubic yards per foot) per year, including beach fill. Downdrift of the groin field the profiles showed an average MSL shoreline gain of 0.66 meters (2.2 feet) per year and an average unit volume loss of 0.12 cubic meter per meter (0.05 cubic yard per foot) per year. The largest changes measured resulted from the storm of 22 March 1973, which eroded the shoreline an average of 20 meters (65.6 feet) and removed an average of 29 cubic meters per meter (11.6 cubic yards per foot) of beach front above the MSL elevation. Beach changes were found to be seasonal, with the least amount of sand above MSL from January to May. The data taken provide no information on profile changes below MSL, either natural changes or changes caused by the groin field. However, bathymetric survey data collected within the groin field by the U.S. Army Engineer District, New York, and summarized in this report show that underwater changes are larger than changes on the beach and occasionally are opposite in sign.

#### PREFACE

This report is published to provide coastal engineers with a description of beach changes at Westhampton Beach, New York. The 11-year study was begun shortly after the catastrophic storm of 5 to 9 March 1962 and was designed to measure the response of a relatively unstructured beach to seasonal changes as well as storm events. However, 3 years after the surveys were begun, a field of 15 groins requiring 5 years to complete was constructed. Some of the effects of this groin field and associated beach fill are included in this report. The work was carried out under the coastal processes program of the U.S. Army Coastal Engineering Research Center (CERC).

The report was prepared by Allan E. DeWall, Geologist, under the supervision of Dr. C. Galvin, formerly Chief, Coastal Processes Branch, Research Division.

Data collection was accomplished by the Survey Branch, U.S. Army Engineer District, New York, under the direction of W. Muszak, as part of the CERC Beach Evaluation Program (BEP) under the successive supervision of J. Caldwell, J. Darling, C. Galvin, C. Everts, and A. DeWall. Data reduction and analysis were accomplished with the assistance of B. Sims, J. Buchanan, M. Czerniak, W. Seelig, M. Fleming, T. Lawler, L. Adkinson, E. Kohler, J. Jones, P. Campos, F. Weinman, and J. Headland. Spectral analysis of wave gage data was done by the Coastal Oceanography Branch.

Special thanks are extended to the wave observers, including students of Southampton College, under the direction of Professor C.L. McCormick; F. Zimmer and N. Ackerson of the Long Island State Park Commission; M. Stephenson, C. Douhan, and J. Keller of the Fire Island National Seashore; and Chief Hickson of the Suffolk County Parks Commission. The author acknowledges and appreciates the helpful review comments from Dean M.P. O'Brien, Dr. R.L. Wiegel, and Mr. G.K. Nersesian.

Comments on this publication are invited.

Approved for publication in accordance with Public Law 166, 79th Congress, approved 31 July 1945, as supplemented by Public Law 172, 88th Congress, approved 7 November 1963.

Colonel, Corps of Engineers
Commander and Director

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# CONVERSION FACTORS, U.S. CUSTOMARY TO METRIC (SI) UNITS OF MEASUREMENT

U.S. customary units of measurement used in this report can be converted to metric (SI) units as follows:

Mu1	tiply	by	To obtain
inches		25.4	millimeters
		2.54	centimeters
	inches	6.452	square centimeters
cubic	inches	16.39	cubic centimeters
feet		30.48	centimeters
		0.3048	meters
square	feet	0.0929	square meters
cubic	feet	0.0283	cubic meters
yards		0.9144	meters
	yards	0.836	square meters
cubic		0.7646	cubic meters
miles		1.6093	kilometers
square	miles	259.0	hectares
knots		1.852	kilometers per hour
acres		0.4047	hectares
foot-pou	nds	1.3558	newton meters
millibar	s	$1.0197 \times 10^{-3}$	kilograms per square centimeter
ounces		28.35	grams
nounde		453.6	anome
pounds		0.4536	grams kilograms
		0.4530	KITOgrams
ton, lon	g	1.0160	metric tons
ton, sho	rt	0.9072	metric tons
degrees	(angle)	0.01745	radians
Fahrenhe	it degrees	5/9	Celsius degrees or Kelvins <sup>1</sup>

 $<sup>^1</sup>$ To obtain Celsius (C) temperature readings from Fahrenheit (F) readings, use formula: C = (5/9) (F -32).

To obtain Kelvin (K) readings, use formula: K = (5/9) (F - 32) + 273.15.

#### BEACH CHANGES AT WESTHAMPTON BEACH, NEW YORK, 1962-73.

by Allan E. DeWall

#### I. INTRODUCTION

Beach changes observed during repeated surveys at Westhampton Beach, New York, conducted by the Corps of Engineers from 1962 to 1973, are analyzed as part of the U.S. Army, Coastal Engineering Research Center (CERC) Beach Evaluation Program (BEP) (formerly known as the Pilot Program for Improving Coastal Storm Warnings or Storm Warning Program). The BEP's objective is to measure beach and dune changes due to erosion and accretion at selected localities and relate these changes to the coastal processes producing them. The BEP was a direct outcome of investigations into the effects of the Great East Coast Storm of March 1962 (see U.S. Congress, 1962). Twelve beaches in the region hardest hit by that storm (Massachusetts to North Carolina) are presently under study in this program. The surveying at Westhampton Beach is coordinated by CERC; the U.S. Army Engineer District, New York, is responsible for the fieldwork.

This report presents an analysis of beach profile changes at Westhampton Beach, documents the precise location of the surveyed profile lines, and describes the survey procedures used and accuracy obtained in repetitive surveys to wading depth.

Profile changes are analyzed in three parts: (a) short-term changes, including storm-induced changes and other changes between surveys; (b) long-term changes, including seasonal and yearly changes; and (c) some effects of a groin field and beach fill constructed during the study period. The variables analyzed include the mean sea level (MSL) shoreline position and the volume of sand stored on the beach above the MSL datum. Apparent trends in beach changes are correlated with observed wave conditions.

Volumetric change data to -6 meters MSL obtained before, during, and after groin construction are also presented (U.S. Army Engineer District, New York, 1976).

Metric units are used throughout this report except for specifications in data collection and computer processing where U.S. Customary units are given with the metric equivalent.

#### II. STUDY AREA

Westhampton Beach is a barrier island located on the south shore of Long Island, approximately 120 kilometers northeast of New York City (Fig. 1). The barrier island is 22 kilometers long, and ranges from 150 to 800 meters wide. The island is bounded on the east by Shinnecock Inlet and on the west by Moriches Inlet, and is separated from the Long Island "mainland" by the shallow Shinnecock and Moriches Bays and by

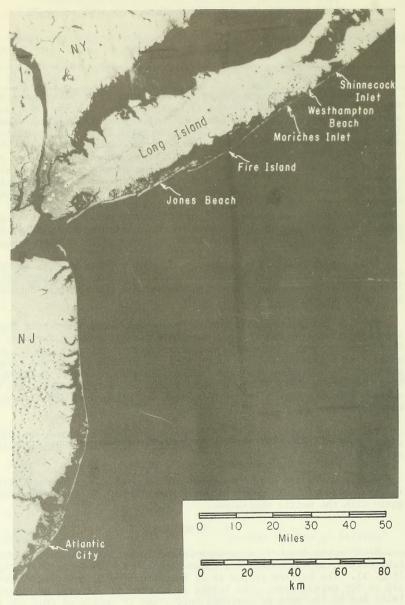


Figure 1. Location map.

dredged canals in the center part. The island encompasses the village of Westhampton Beach, the communities of Tiana Beach and Quogue, and the Copsoque Beach Park.

The geomorphology and geologic history of the south shore of Long Island have been summarized in Beach Erosion Board (1960), Taney (1961a), U.S. Army Engineer District, New York (1963, 1969), and Heikoff (1976).

Since the shoreline of Westhampton Beach trends N. 70° E., it is parallel to wave crests coming from the south-southeast. The ocean beaches consist of medium to coarse grain (0.3 to 1.2 millimeters or 1.7 to -0.3 phi; Taney, 1961b) quartz sand and are approximately 75 to 125 meters wide from the frontal dune to the mean low water (MLW) shoreline (Figs. 2 and 3). Maximum dune elevations range from 4.6 to 7.6 meters above MLW, with the higher elevations occurring on the eastern profiles.

Tides are semidiurnal with a mean range of 0.9 meter and a spring range of 1.1 meters. Mean wave height, from visual breaker observations between 1968 and 1973, is 0.73 meter; mean period is 8.1 seconds.

The direction of net longshore sand transport is from east to west and the average net rate has been estimated to be about 230,000 cubic meters per year at Shinnecock and Moriches Inlets (U.S. Army Engineer District, New York, 1971). Net transport rates decrease eastward along the south shore of Long Island due to increasing exposure to waves from the southwest.

Twin jetties were constructed between 1947 and 1954 at both Moriches and Shinnecock Inlets, together with revetments along the west shore of each inlet. The jetties at Shinnecock Inlet were completed about 2 years before those at Moriches Inlet. Three separate dune-fill projects on Westhampton Beach were completed by the State of New York in 1951, 1958, and 1967. The last two projects amounted to 116,000 and 76,000 cubic meters of fill, respectively. Additional work by the State and Federal Governments included dune reconstruction after a major hurricane in September 1938, emergency closure of breaches in the barrier opened in 1954 (Hurricane Carol) and during the 6, 7, and 8 March 1962 northeaster (vicinity of profile line 7, Fig. 4), construction of a field of 15 groins, and associated beach fill. A total of 864,000 cubic meters of fill material, with median grain size of 0.35 millimeter, was placed along the beach front after the March 1962 storm.

Groin construction was accomplished in two phases (Table 1 and Fig. 4). Eleven groins were constructed between profile lines 5 and 8 during July 1965 to October 1966. The groin field was extended 1,800 meters westward with an additional four groins between August 1969 and July 1970. These additional groin compartments were filled with a total of 1.9 million cubic meters of dune and beach fill, placed during 15 March to 23 May 1969 and 27 to 31 October 1970.

#### III. DATA COLLECTION PROCEDURE

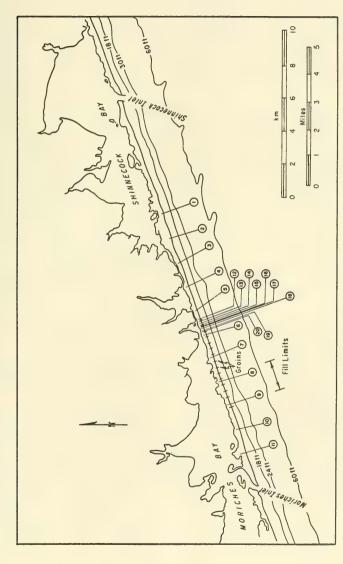
A total of 20 profile lines was established along azimuths perpendicular to the local shoreline (Fig. 4). Profile lines 1 to 11 were



Figure 2. View east from profile line 1 (see Fig. 4), 6 September 1974.



Figure 3. View west from profile line 7 (see Fig. 4), 6 September 1974.



Surveyed profiles extend from dune to wading depth along plotted profile line. Profile line locations, Westhampton Beach, New York. Figure 4.

Table 1. Westhampton Beach groin construction schedule. 1

Groin No. <sup>2</sup>	Station <sup>3</sup> (ft)	Started	Completed
1	460 + 84.87	7 July 1965	25 Mar. 1966
2	472 + 74.16	13 Apr. 1966	13 Oct. 1966
3	484 + 66.94	15 June 1965	2 Mar. 1966
4	495 + 77.25	24 Nov. 1965	30 June 1966
5	509 + 38.40	26 May 1965	24 Jan. 1966
6	521 + 42.97	12 Nov. 1965	28 July 1966
7	535 + 42.57	7 May 1965	31 Jan. 1966
8	547 + 83.54	1 Nov. 1965	13 Sept. 1966
9	559 + 52.00	12 Apr. 1965	29 Sept. 1965
10	572 + 63.68	18 Oct. 1965	12 May 1966
11	584 + 98.83	15 Mar. 1965	27 July 1965
12	600 + 34.90	30 Oct. 1969	
13	615 + 25	25 Aug. 1969	
14	628 + 50	22 Oct. 1969	
15	643 + 75	4 Aug. 1969	

<sup>&</sup>lt;sup>1</sup>Data from U.S. Army Engineer District, New York.

<sup>&</sup>lt;sup>2</sup>Numbered from east to west.

<sup>&</sup>lt;sup>3</sup>Groin stationing is reported in feet along the U.S. Army Engineer District, New York, baseline.

<sup>&</sup>lt;sup>4</sup>Individual completion dates for groins 12 to 15 are not available; construction time was reportedly similar to groins 1 to 11, and all four groins were reportedly completed by 24 July 1970.

established at approximately 1.5-kilometer intervals in 1962. Profile lines 12 to 20 were established in 1972 and located within and just updrift of the two easternmost groin compartments. These profile lines were spaced at an average interval of 92 meters. In 1974, concrete monuments with standard brass Corps of Engineers' discs were placed on each profile line. Each monument was referenced horizontally to the State plane coordinate system (Long Island Lambert) and vertically to a local MLW datum (approximately 0.43 meter below mean tide level) established by the New York District. Monument documentation is given in Appendix A.

Profile surveys were collected by professional surveyors from the New York District, using the transit and stadia method (Fig. 5). Surveys were conducted along the established profile lines, starting in the vicinity of the primary dume crest and continuing as far seaward as a rodman could safely wade. At low tide, when surveys were usually scheduled, the profiles generally crossed the MLW datum. Onshore winds or high waves occasionally kept the rodman from reaching the MSL elevation. Occasionally, an amphibious vehicle (LARC V) was used to carry the rodman along the seaward part of the profile line (Fig. 6).

Only one instrument setup per profile was usually made. If, at the seaward end of the profile, the stadia rod was too low to be sighted when leveling, the rodman often used the "booting" method to get the needed elevation by placing the bottom of the rod at a premeasured elevation (such as the rodman's boot top or belt), which would bring the top of the rod back into the level line-of-sight.

The surveyed points defining the profile were recorded to the nearest 0.1 foot (0.03 meter) in distance and to the nearest 0.01 foot (0.003 meter) in elevation. For analysis purposes, these values were reported to the nearest 1.0 foot (0.3 meter) for distance and 0.03 meter for elevation. Points were surveyed approximately every 8 to 15 meters and at every visible change in slope.

The data obtained during the 1962-68 period were recorded in standard surveyor's field notebooks and plotted at a scale of 1:60 vertical and 1:600 horizontal. The 1969 to 1973 data were transcribed from the field notebooks to optical scanner forms.

The frequency of surveys ranged from weekly to quarterly, but they were generally done on a near-monthly schedule (Fig. 7). During each of the winters of 1967-68, 1968-69, and 1969-70, a series of 10 weekly surveys was made on profile lines 1 to 11. An attempt was also made to survey all lines immediately after significant coastal storms.

During the winter months of 1968 to 1974, rows of pipes were jetted into the sand at surveyed points along profile lines 4 and 8. Weekly sand level measurements were made by volunteer observers as a supplement to the instrument surveys. This project and an analysis of the first season's data are discussed in Urban and Galvin (1969).



Figure 5. Transit and stadia board used for profile surveys.



Figure 6. Rodman using LARC V to obtain surf zone bottom elevations.

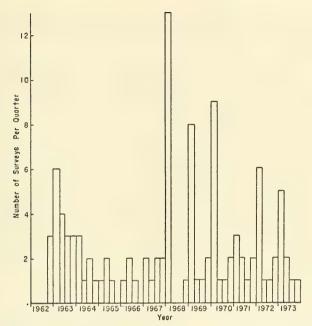


Figure 7. Frequency of surveys at Westhampton Beach.

#### IV. DATA ANALYSIS

Copies of the hand-plotted profiles from 1962 to 1968 were digitized at each of the surveyed points using an Auto-Trol 3400 digitizer and the resulting data were stored on magnetic tape. Data collected after 1968 were transcribed directly to optical scanner forms (International Business Machines Corporation, 1968) and converted to punchcards automatically. Hand-plotted data were edited for unreasonable values before digitizing. However, it was necessary to edit the directly coded data before storage on magnetic tape. Data corrections were verified with the original survey books or by the surveyors, rather than being arbitrarily made in the office. The basic data for this report are tabulated in Appendix B. Distances (feet) are referenced to the MLW datum.

The profile data were analyzed for changes in MSL shoreline position (App. C) and changes in unit volume between surveys (App. D). For purposes of analysis, all profile changes were referenced to conditions on the "initial survey date." The initial survey dates for profile lines 1 to 11 and 12 to 20 were 11 October 1962 and 9 August 1972, respectively. The distance-elevation coordinates of the MSL-contour intercept with the initial survey on each profile line were then redefined as the origin (0.0) of a new coordinate system to which all subsequent surveys were

referenced (Fig. 8). Negative distances indicate stations landward of the MSL-intercept with the initial profile; positive distances indicate seaward stations.

For a profile crossing the MSL elevation, the MSL-intercept was linearly interpolated. When a profile did not cross the MSL elevation, but reached the +2-foot MSL elevation, the MSL-intercept was determined by extrapolating the profile along the slope defined by the two seaward-most surveyed points on the profile.

The cross-sectional area under each profile was computed. This area is bounded by three lines: (a) a vertical line projected from the landwardmost distance common to all surveys on a given profile line, (b) a horizontal line at the MSL elevation, and (c) the surveyed profile. The calculation was accomplished by summing 1-foot horizontal slices through the area under the profile (Fig. 9). The area change from the initial survey was then computed by subtracting the initial profile area from each subsequent profile area. Cross-sectional areas were computed in square feet and then converted to unit volume in cubic meters per meter of shoreline (1 cubic meter per meter = 10.8 cubic feet per foot). Areas were not computed under those profiles not reaching the +2-foot elevation at the seaward end.

A time-history plot in Appendixes C and D identifies dates of profile surveys, documented storm events, groin construction, and beach fill.

The plots in Appendix E are profile envelopes; i.e., the plots show two lines drawn through the upper and lower extremes of the surveyed sand elevations on each of the profile lines. The envelope of extremes usually contains points from many different surveys, rather than trace a particular eroded or accreted profile found during one survey.

#### V. RESULTS

During the 11-year study, 1,291 profile line surveys were collected. Surveys were scheduled monthly (or more often) for the first 18 months (Fig. 4). This frequency dropped to (approximately) quarterly surveys during 1964 to 1967. From 1968 to the end of the study, the data collection effort was concentrated during the winter months when there was a higher probability of the occurrence of northeasters. Scheduled surveys were generally bimonthly during the calmer weather of late spring to early fall.

The profile changes analyzed in this report are grouped by short-term and long-term changes. Short-term changes are changes measured between surveys; i.e., changes which occur over an interval of a few hours or days (in the case of storms) or over a few months (in the case of seasonal changes). Long-term changes that can be identified in the profiles include the yearly changes and may suggest longer term trends reflecting a relative rise in sea level and barrier island migration.

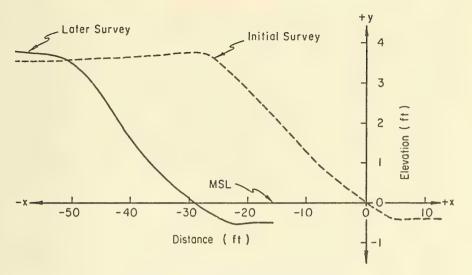


Figure 8. Profile coordinate system.

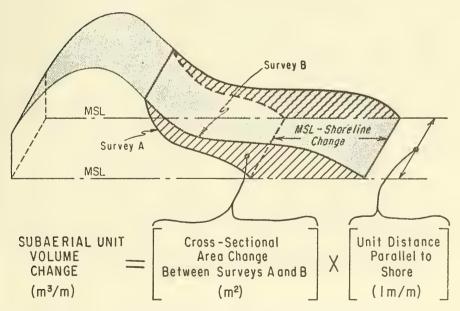


Figure 9. Definition of MSL shoreline change and subaerial unit volume change.

Changes in the MSL shoreline position and unit volume for profile lines 1 to 11 during the study period are summarized in Figure 10. The same changes also appear in Appendixes C and D, with distances and volumes referenced to the MSL position and beach volume in October 1962. These data show alternating intervals of accretion and erosion throughout the study, with only small net changes on the profile lines away from the influence of the groin field. The changes on profile lines 5 to 9 are a result of the groin field and artificial fill. Profile lines 1 to 4 are presumably undergoing more "natural" changes, although these changes may also be caused by the groin field. The U.S. Army Engineer District, New York (1976) has suggested that the changes measured on the easterly profiles are influenced by the placement of dredged material from the Intracoastal Waterway, which rums along the north side of the barrier island. However, the quantities and extent of dredged-material placement are not well documented.

## 1. Short-Term Changes.

Twenty-eight pairs of profile surveys were made shortly before and after significant coastal storms (Table 2). Typically, these storms are winter northeasters—extratropical low-pressure systems which develop inland, strengthen as they reach the coast, and then move fairly rapidly toward the north-northeast. The storms listed in Table 2 are not the only storms which occurred during the study, and may not even include the most damaging storms. For example, the majority of the listed storm changes occurred during the three scheduled 10 weekly surveys (17 of 28 storms). The table also shows that very few surveys were made immediately after storms. Since there is often a very rapid recovery of the beach immediately after storm erosion, the changes shown in Table 2 are considered to be conservative estimates.

A detailed analysis of the 17 December 1970 storm (a moderate northeaster) and its effect on the profile lines at Westhampton Beach is presented in DeWall, Pritchett, and Galvin (1977). The September 1967 storm (Hurricane Doria) generated coastal waves up to 4.6 meters in height, as measured by the CERC wave gage at Atlantic City, New Jersey (Fig. 1).

The beach profile change data in Table 2 are average values of the change in MSL position and unit volume above MSL for profile lines 1 to 11. Changes by profile line for each of the storms are plotted as histograms in Figure 11, which clearly shows that for any given storm both accretion and erosion occurred at different profile lines. The figure also shows that a given profile line may have undergone significant erosion during one storm and significant accretion during another. The greatest amount of erosion that was measured resulted from the storms of March 1973, 18 February 1969, February 1972, and September 1967 (Hurricane Doria).

Two storms during 7 to 12 November 1968 caused considerable property damage near profile line 8 (Fig. 12), but are not included in Table 2 because the prestorm survey was in March 1968. During the interval 27

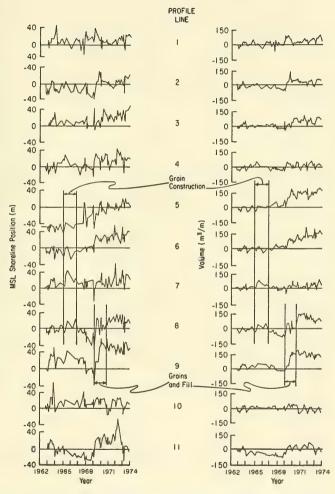


Figure 10. Changes in shoreline position and unit volume at Westhampton Beach, New York.

Table 2. Westhampton Beach storm changes. 1

C+0.mm do+0.0		Curvey dates	dotor We	Stnampt	MCI shoreline		About time MSI time	
		04100	200		TOTIC TOTIC	(m)	In Total Over	(m <sup>2</sup> /m)
					(Avg.)	(Std. dev.)	(Avg.)	(Std. dev.)
19 to 22 Oct. 1963	5 25	Sept., 30	Oct.	1963	68.9	9.87	13,36	16.71
13 Jan. 1964		8, 21	Jan.	1964	-3.39	13,24	-16.63	13.55
10 to 17 Sept. 1967	20	July, 21	Sept.	19672	-16.20	18,31	-25.52	42.77
7 Jan. 1968		5, 11	Jan.	1968	5.07	7.20	0.24	7.75
14 Jan. 1968	00	11, 18	Jan.	19682	-6.68	11,59	-5.60	10,83
25 Jan. 1968	8	24, 31	Jan.	1968 <sup>2</sup>	-9.21	7,10	0.37	10,23
8 Feb. 1968	8	7, 14		1968	-6.35	11.93	-2.76	12.20
25 Feb. 1968	00	21, 28	Feb.	1968	-0.42	9,31	4.65	11,61
1 Mar. 1968	28	Feb., 6	Mar.	1968	3.46	5.34	0.05	5.01
13 Mar. 1968	8	6, 14	Mar.	1968	-0.51	4.48	-4.61	4.94
18 Mar. 1968	00	14, 22	Mar.	19682	1.03	8,30	0,62	4.13
23 Mar. 1968	00	22, 27	Mar.	1968	1.50	9,73	-0.62	6.53
22 Jan. 1969	6	17, 29	Jan.	1969	-7.54	15,81	-8.06	18,69
10 Feb. 1969	6	7, 13	Feb.	1969	0.87	15,42	7.33	19,19
18 Feb. 1969	6	13, 24	Feb.	19692	-14.19	14,24	-28,91	23,73
24 Feb. 1969	6	24, 28	Feb.	19692	-3.03	13,53	0.32	13.21
2, 7 Mar. 1969	28	Feb., 10	Mar.	1969	6.38	18,39	8,95	24.38
10 Mar. 1969	6	10, 14	Mar.	1969	4.61	8,12	2.78	9,91
11 Dec. 1969		25 Nov., 20	Dec.	1969	-3.13	7.85	-8.78	25.94
20 to 27 Dec. 1969 <sup>3</sup>	93 20 Dec.	c. 1969,	15 Jan. 197	. 1970	3,74	12,11	5.81	32.81
Jan.	0	15, 22	Jan.	1970	2.83	8.20	6.77	13,16
Apr.	13	Mar., 7	May	1970	2.86	13,77.	-5.29	17.91
Dec.	0	1, 18	Dec.	1970	3.91	11,29	-10.44	17,35
4 Feb. 1972	31	Jan., 5	Feb.	1972	-1.68	9,30	-24.10	20.02
13, 19 Feb. 1972	2	5, 22	Feb.	1972	-2.12	7.96	-21.26	13,49
16 Dec. 1972	2	Dec. 1972,	3 Jan.	1973	2.11	13,96	-3.03	25.22
Feb. 1	3		Feb.	1973	-5.81	18.29	-18.84	26.68
22 Mar. 1973	3	16, 24	Mar.	1973	-20.52	16,35	-29,18	19,55
1 Average change mea	noncitrod	on noof:	nrofile lines 1	+	11. 0000+	but souter outstand	licate erocion	

<sup>1</sup>Average change measured on profile lines 1 to 11; negative values indicate erosion. <sup>2</sup>Not all profiles reached MSL. <sup>3</sup>More than one storm occurred during the interval between surveys.

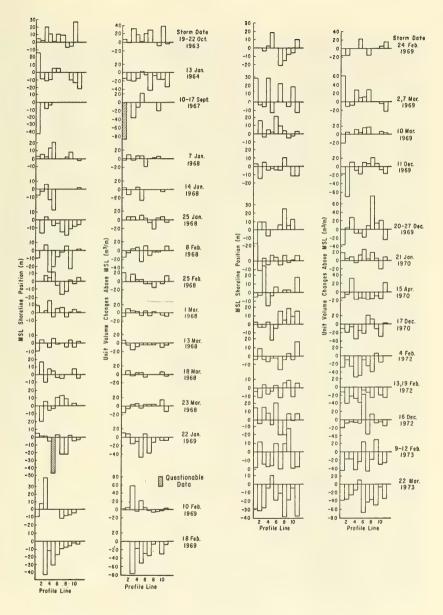


Figure 11. Storm-induced changes at Westhampton Beach.



View of Westhampton Beach after storm of 12 November 1968, west of 11-groin field (in background). Note wreckage of structure and critical condition of the shore. (U.S. Army Engineer District, New York, 1969). Figure 12.

March to 19 November 1968 the shoreline at profile line 8 eroded 18 meters. It is not known what percentage of this erosion was due to the November storms, since the profile was still adjusting to the groin which was constructed 75 meters updrift in 1965. A total of 562,700 cubic meters of sand was lost from the 1,800-meter reach west of the 11-groin field due to the 12 November 1968 storm (U.S. Army Engineer District, New York, 1969). Based on poststorm inspections and examination of air photos, it was reported that the November 1968 storms caused the most damage during this study period (G.K. Nersesian, Chief, New Jersey Planning Group, U.S. Army Engineer District, New York, personal communication, June 1978).

Other than storms, the significant short-term profile changes measured are directly attributable to groin construction and beach-fill events. Losses similar to the large losses previously noted on profile line 8 also appear on profile lines 7, 8, and 9 after completion of the first field of groins (Apps. C and D). During the 2-year period after groin construction, the shoreline at profile line 8 eroded at 20 meters per year, and the unit volume loss was 9 cubic meters per meter per year. These losses confirm that the groins were effectively trapping littoral drift being transported to the west.

The large gains in sand volume observed on profile lines 8 and 9 represent the two beach-fill projects in 1969 and 1970. The emergency fill placed during March, April, and May 1969 is quite apparent on profile line 8 (App. D). The time of this fill coincides with a period of natural accretion observed on most of the other profiles. The second and much larger fill project (27 October 1969 to 31 October 1970) was in conjunction with the construction of groins 12 to 15 (Fig. 4 and Table 1). This fill totaled 1,490,000 cubic meters of material (determined from surveys in the borrow area) placed over 1,800 meters of shoreline. Since the borrow area was in the lagoonal sediments of Moriches Bay, not all fill material was of suitable sand size. Before-and-after surveys of fill on profile lines 8 and 9 indicate that at least 175 cubic meters per meter of material was placed on the beach above MSL. Since the surveys did not include all of the dune profile, this value is a minimum.

# 2. Long-Term Changes.

In addition to the short-term changes, which are often quite large, the data in Figure 10 suggest that the profiles undergo seasonal cyclic changes and also a longer term net change which may or may not be cyclic.

Figure 13 shows the monthly average MSL shoreline position and unit volume for each of the profile lines. The "zero" MSL position and unit volume in the figure represent the mean of the monthly averages for each profile line. These data show that changes are actually seasonal with the least amount of sand on the beaches from January to May and the most sand on the beaches from June to December. However, relatively few surveys were made in summer, and the data shown in the figure for July are based on only three surveys over the 11 years (1963, 1964, and 1967); therefore the data may be less representative of average summer conditions.

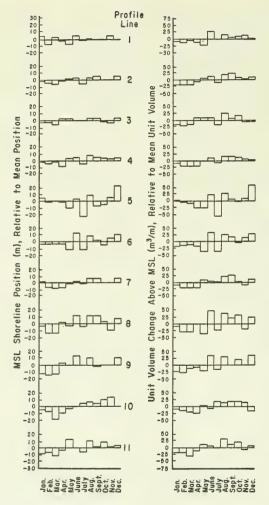


Figure 13. Monthly mean shoreline position and unit volume at Westhampton Beach.

Table 3 shows the rates of change for profile lines 1 to 11 during the interval 1962-73. These change rates were computed by the least-squares method and indicate that with the exception of profile line 10, all profile lines had a net accretion above MSL over the 11-year interval.

Table 3. Rates of profile change on Westhampton Beach, 1962-73.

	taron or profitto offers		704011, 1502 751
Profile line	Distance from	MSL shoreline	Above MSL unit
	profile line 1	change 1	volume change 1
	(m)	(m/yr)	(m³/m/yr)
1	0	0.15	3.90
2	1,570	0.86	4.19
3	3,119	1.84	4.06
4	4,685	1.56	2.59
5	6,253	5.97	18.17
6	7,699	4.33	13.99
7	9,147	0.89	1.68
8	10,651	2.51 <sup>2</sup>	11.672
9	12,253	3.55 <sup>2</sup>	14.09 <sup>2</sup>
10	13,801	-0.28	-1.31
11	15,365	1.59	1.06
Avg.		+2.09	+6.74

<sup>1</sup>Positive values denote accretion; negative values, erosion.

# 3. Groin Effects.

The profile change data in Figure 10 show that the groin field at Westhampton has effectively built up the beaches within and immediately updrift of the field (profile lines 5 to 9). After completion of the first 11 groins, profile lines 5 and 6 began an accretionary trend that is in contrast to the first 3 years of the study when the net change was nearly zero. During the interval between completion of the first 11 groins and completion of the last 4 groins, profile lines 8 and 9 showed an erosional trend, which was reversed and stabilized as a result of the beach fill and additional groin construction. A period of accretion on profile lines 1 to 4, which was generally coincident with accretion measured on profile lines 5, 6, and 7, may also be due to the groins but is interpreted as resulting from other causes.

An independent set of survey data collected in the vicinity of the groin field by the U.S. Army Engineer District, New York, and which extended to below -18 feet (-5.5 meters) MLW, is summarized in Figure 14. These data show a large amount of accretion occurring below MLW during the period of construction. After completion of the first 11 groins, the three easterly compartments continued to accrete; the westerly compartments lost a considerable amount of material. Most of the erosion occurred below the waterline while the above MLW profiles indicated accretion. The three easterly compartments were reported to be filled and bypassing sand by 1972 (G.K. Nersesian, personal communication, June 1978).

<sup>&</sup>lt;sup>2</sup>Within the area of direct placement of beach fill.

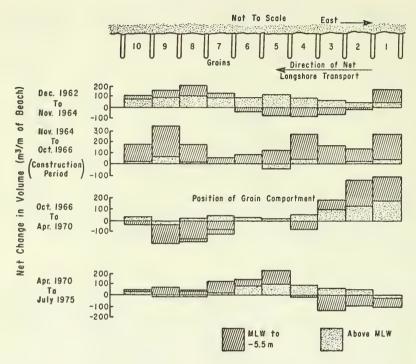


Figure 14. Net volumetric changes within groin compartments, easternmost 11 groins at Westhampton Beach (revised from U.S. Army Engineer District, New York, 1976).

The purpose for establishing profile lines 12 to 20 in 1972 was to determine the effects of the groins at various positions within the two easternmost compartments (Fig. 10). The changes in MSL shoreline position and unit volume for profile lines 12 to 20 are plotted in Figure 15 and summarized in Table 4. The shoreline position in the figure was traced from aerial photos taken after the 19 February 1972 northeaster. The change rates in the table were computed by standard linear regression analysis. These data show that, of the three groins, only groin 1 is impounding sand on its east (updrift) side and losing sand on its west side. Since most of the impounded sand appears to be removed during periods of erosion, only a small net increase in unit volume occurred updrift of groin 1 between August 1972 and December 1973 (0.5 cubic meters per meter). Profile line 13, immediately downdrift of groin 1, has undergone a net erosion with some recovery during the summer. Profile lines 15 and 16 on either side of groin 2 both accreted, while the two profile lines immediately east of groin 3 showed a net erosion. During the 16month interval the two compartments gained a total of 17,940 cubic meters of sand above MSL. The compartment bounded by groins 2 and 3 accreted at a rate 86 percent higher than the compartment bounded by groins 1 and 2. The rates of accretion measured on profile lines 14 and 18, located near the midsection of the two compartments, are significantly higher than the average rates for the compartments. Profiles away from the groin field showed little net change during the same period (Fig. 10).

	le 4. Rates of profile changes within groin field, 1972-73.						
Profile line	Groin	Distance from	MSL shoreline	Above MSL unit			
		groin 1	change	volume change			
		(m)	(m/yr)	$(m^3/m/yr)$			
12		63	-0.54	+0.49			
	1	0					
13		61	-6.39	-4.22			
14		182	+8.92	+16.18			
15		316	+4.39	+27.03			
	2	363					
16		386	+18.98	+37.85			
17		416	+24.79	+62.32			
18		5 34	+11.77	+26.78			
19		669	-6.23	-0.38			
20		699	-10.52	-19.01			
	3	726					
Avg. (distance-weighted)							
	1 to 2		+2.37	+12.76			
	2 to 3		+8.51	+23.71			
	1 to 3		+5.44	+18.24			

VI. DISCUSSION

# 1. Profile Changes.

Previous studies of profile changes at Westhampton Beach have determined shoreline erosion rates of 2 to 3 meters per year for data collected

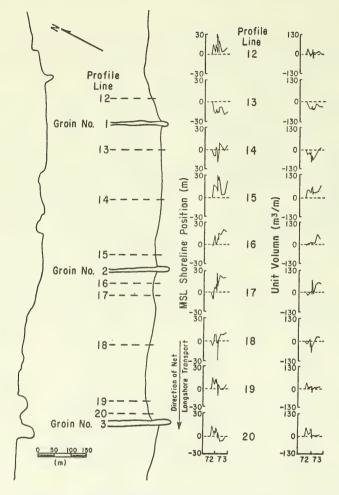


Figure 15. MSL position and above MSL volume within easterly groin compartments, 1972-73.

between 1940 and 1956 (Taney, 1961a; Beach Erosion Board, 1960). Taney has also shown that Westhampton Beach retreated at an average rate of 0.6 meter per year for the interval between 1938 and 1956. This suggests that the accretionary period documented during this study is not typical of the long-term trend. Although much of the overall gain can be attributed to the trapping of littoral drift within the groin field and the placement of fill within the four westernmost groin compartments, significant accretion also occurred on five profile lines that are presumed to be less influenced by the groin field (profile lines 1 to 4, and 11). The profile lines within the easternmost groin compartments and immediately to the east of the groin field generally showed the highest rate of nonfill related accretion. It is not known how much of this accretion might be due to a general recovery from the storm of March 1962.

A natural accretionary trend, coincident with the construction of the Westhampton Beach groin field, is suggested by changes measured on profiles located 2 to 5 kilometers updrift and 3 kilometers downdrift of the groin field. Erosional trends measured on profile lines 2, 3, 4, and 11 from 1962 to 1968 were reversed in 1969. The rapid shoreline advance observed on profile line 11 during 1972 may be a result of fill material migrating westward from the groin field. This material was apparently transported seaward of the shoreline at profile line 10 since there is no indication of it from the beach surveys on that line. Everts, DeWall, and Czerniak (1974) documented an alongshore migration of fill material placed on the beach at Atlantic City, New Jersey. Migration rates of the subaerial "hump" or volume maximum resulting from two separate fill projects were 2 and 3 meters per day. If the 1972 accretion observed at profile line 11 on Westhampton Beach resulted from the 1970 fill, the rate of alongshore movement of the volume maximum from profile lines 9, 10, and 11 would have been 4 meters per day. It is also possible that the general accretionary trend is due to artificial nourishment associated with both the groin construction and with placement of material dredged from the Intra-coastal Waterway.

# 2. Seasonal Changes and Wave Climate.

Monthly mean wave height and period observations (from three sources) are summarized in Figure 16. The gage data are from a spectral analysis of 1,024-second digital records collected by CERC four times per day, using a pressure sensor located on the sea bottom, offshore of Southampton (Fig. 1). Visual observations of breaking waves on a near-daily basis by volunteer observers at Southampton and Westhampton indicate that the breaking waves arrive more frequently from the southeast (from the left of shore-normal, to an observer on the beach) on a yearly basis. During the summer months the lower waves tend to arrive from the south-southwest, or slightly from the right of shore-normal. A comparison of these data with the average nonfill profile changes summarized in Figure 17 shows that, as expected, the higher steeper waves during the fall and winter months tend to remove sand from the beaches, while the lower less steep summer waves tend to rebuild the beaches. A partial beach recovery in December

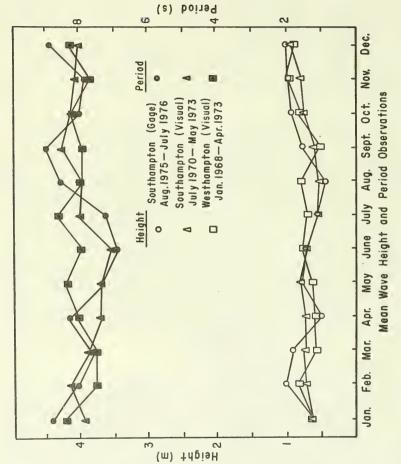
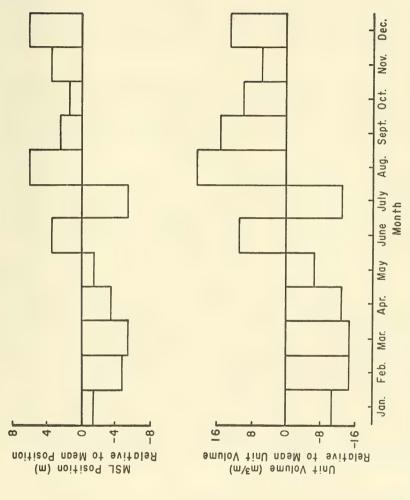


Figure 16. Monthly mean wave height and period observations.



Monthly mean MSL shoreline position and unit volume on nonfill profile lines, 1962-73, Westhampton Beach (includes data from profile lines 1 to 7, 10, and 11). Figure 17.

appears to be coincident with the occurrence of longer waves during that month (Fig. 16). Figure 17 gives averages of the monthly mean shoreline position and unit volume data shown in Figure 13, excluding profile lines 8 and 9. As discussed previously, the averages shown for July are based on only three surveys and may not be representative of average conditions. The surveys at Westhampton Beach have shown that short-term (less than 1 year) fluctuations in beach width of at least 60 meters can be expected away from the influences of the groin field. Changes within and downdrift of a new groin field can be much greater.

Profile envelope plots in Appendix E show the maximum excursions of the MSL shoreline and the maximum and minimum elevations measured along each profile line. The envelopes for profile lines 1 to 11 represent the "active" sand lens over the full 11-year study; the envelopes for profile lines 12 to 20 represent the active sand lens over the last year and a half of the study. The envelopes for profile lines 8 and 9 include the two beach-fill projects; envelopes for profile lines 5, 6, and 7 show the effects of impoundment by the groin field.

### 3. Coastal Engineering Implications.

The beach profile data in this report principally reflect the artificial changes resulting from placement of the groin field and associated beach fill, which began in July 1965. Profile changes measured before the groin field construction were definitely influenced by both natural and artificial (dume and beach fill) recovery from the effects of the March 1962 northeaster.

The data show that, on the average, the groin field and beach-fill projects have halted an erosional trend at Westhampton Beach. However, the groin field has also had the effect of focusing the erosion problem on the beaches immediately downdrift (west). After completion of the first 11 groins, the shoreline immediately downdrift of the westernmost groin eroded at a rate of approximately 28 meters per year. This condition was halted by the placement of beach fill and the construction of additional groins. However, the problem was only moved to a new locationimmediately downdrift of the extended groin field. In planning such a project, consideration must certainly be given to the potential for severe erosion and property damage at the downdrift end of a groin field. Sand that is removed from the longshore transport system and deposited within the groin field is replaced at the expense of the beaches and dunes immediately downdrift. A periodic, local beach nourishment scheme might be one way to maintain the shoreline position and protect the beach in this critical area.

Visual observations of breaker direction suggest that reversals in net longshore transport direction occur during the months of June through September. Reversals in transport direction within the groin field have been documented by the U.S. Army Engineer District, New York (1969). Further evidence of reversal is shown by the changes on profile line 8 during the summers of 1965 and 1966 after construction of groin 11

(Apps. C and D). During those two summers the shoreline at profile line 8 accreted an average of 26 meters and the above MSL volume increased an average of 72 cubic meters per meter. Winter erosion more than equalled these amounts. However, profile lines 12, 15, 19, and 20, immediately to the east of groins, underwent erosion during the summer months in which they were surveyed. Profile lines 13, 16, and 17 on the west side of groins (Fig. 15), underwent significant accretion during the same summers. In planning the location and timing of beach nourishment, these seasonal reversals in transport direction must also be considered.

#### VII. SUMMARY

From 1962 to 1973, 1,291 beach profile surveys were collected on 20 profile lines from the dune to wading depth at Westhampton Beach, New York. Frequency of surveys ranged from weekly to quarterly (Fig. 7). During the study, prestorm and poststorm surveys were made which documented changes resulting from 27 moderate northeaster storms and 1 hurricane (Table 2).

The largest changes measured (in order of decreasing severity) were during the storms of March 1973, February 1969, February 1972, and September 1967 (Table 2; Fig. 11). The seasonal change in beach width for 11 profile lines averaged 30 meters; the seasonal sand volume change above MSL averaged 56 cubic meters per meter (Apps. C and D).

Beach change rates are separated into three categories: east of the groin field (profile lines 1 to 4), within the groin field (profile lines 5 to 9), and west of the groin field (profile lines 10 and 11). During the 11-year study period, profile lines 1 to 4 accreted at a rate of 1.10 meters per year MSL shoreline advance and 3.68 cubic meters per meter per year unit volume gain. Profile lines within the groin field had a shoreline advance of 3.45 meters per year and gain in unit volume of 11.92 cubic meters per meter per year. These figures include directly placed beach fill. Profile lines west of the groin field showed a shoreline advance of 0.66 meter per year and a unit volume loss of 0.12 cubic meter per meter per year (Table 3). The changes on profile lines 1 to 4 are presumed to be the least influenced by the downdrift groin field and beach-fill projects. However, even these values include an unknown amount of material placed on the beach updrift (east) of profile line 1 from maintenance dredging of the Intracoastal Waterway.

These data show that the groin field at Westhampton Beach is effectively trapping sand. During the last 18 months of the study the three easternmost compartments, which were essentially filled, were still trapping sand above MSL at an average rate of 18 cubic meters per meter per year (Table 4). During the same interval the beach downdrift of the groin field (profile lines 10 and 11) lost sand at an average rate of 20.8 cubic meters per meter per year, with the shoreline retreating at 6.7 meters per year.

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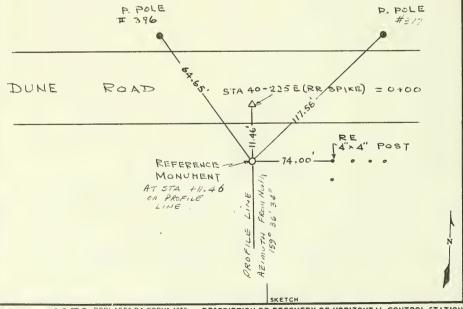


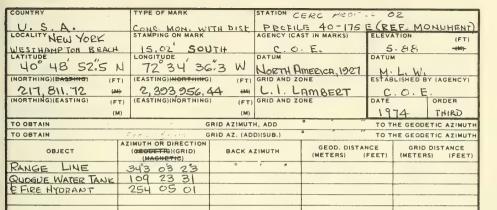
## APPENDIX A

PROFILE LINE DOCUMENTATION

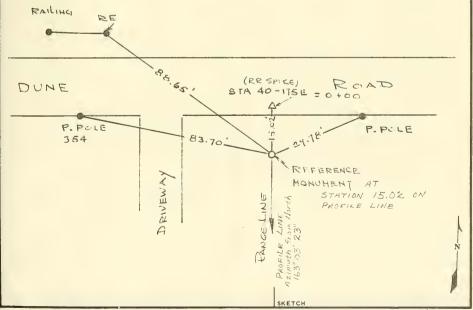
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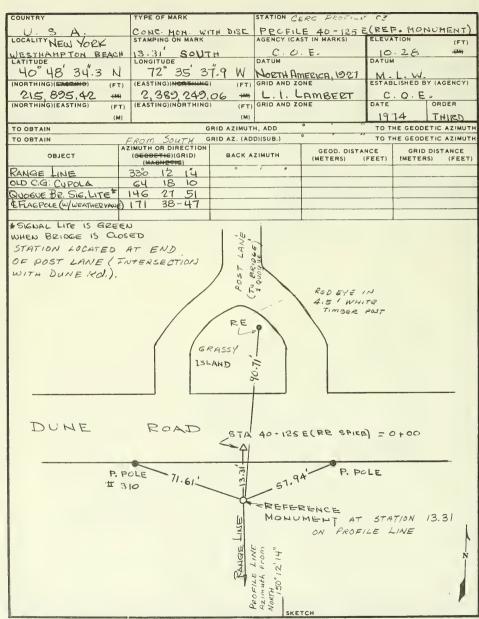
Profile line of is located along Dune Road about 4.55 miles west of Shinnecock Filet and about 1.95 miles east at the intersection of Dune Road AND Post Lane which leads to the Town of QUOQUE. STATION IS ABOUT PROSITE SEDGE IS.

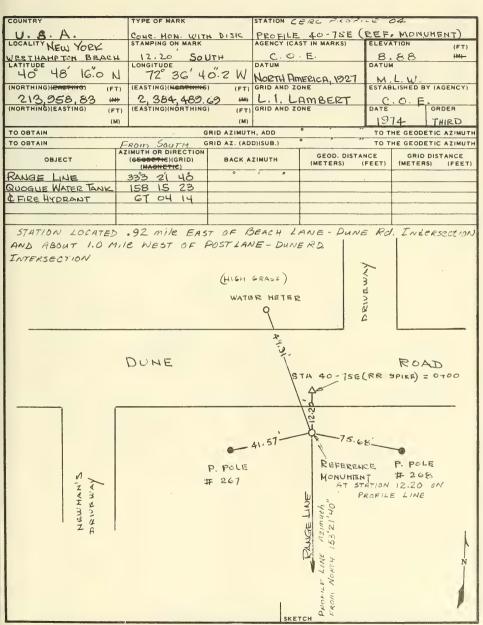




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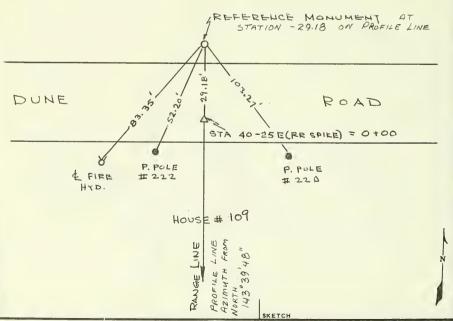


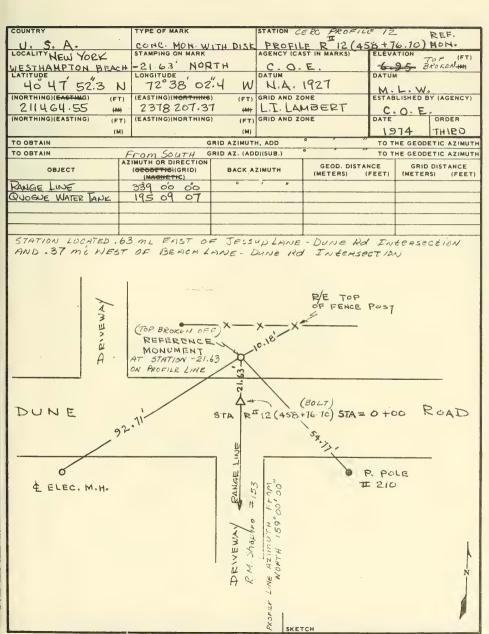


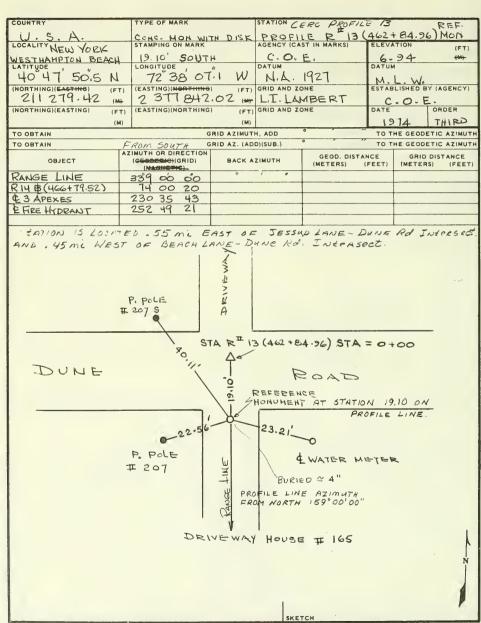


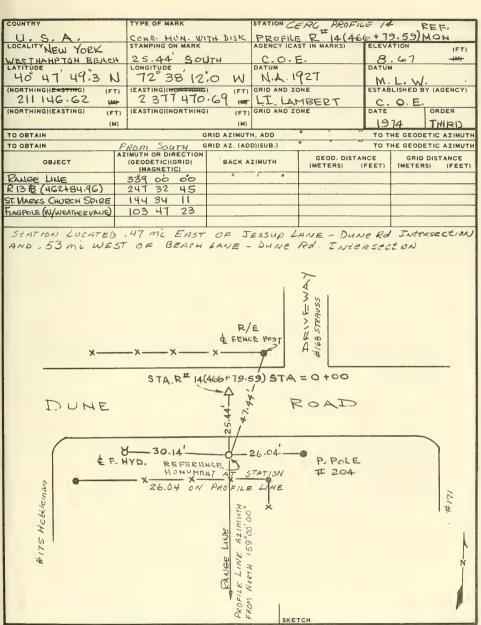
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TO OBTAIN	FROM South GRID AZ.	(ADD)(SUB.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TO THE GEOD	ETIC AZIMUTH
OBJECT	(GCOBETIC) (GRID) BAC	CK,AZIMUTH	GEOD. DISTAR	CE GRID	DISTANCE RS) (FEET)
RANGE LINE	32°3 3′9 4′8	, n			
C FIRE HYDRANT	25 38 36				
	246 44 10				

STATION LOCATED. 96 mi EAST OF JESSUP LANE - DUNE Rd Intersection AND. 04 mi WEST OF BEACH LANE - DUNE Rd IntersectiON. (\$1305t)





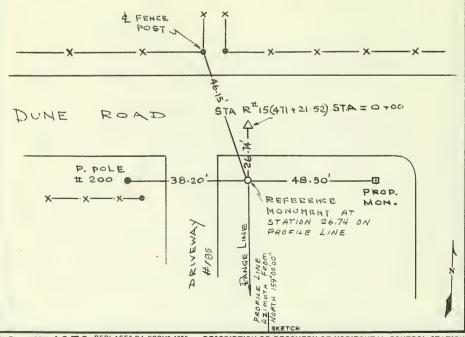




A FORM 1959 AND 1860, 1 FEB 87, WHICH ARE OBSOLETE. (TM 5-237)

COUNTRY	TYPE OF MARK	STATION	ERC PROFILE	15	REF.
U.S.A.	CONC. MON.	WITH DISK PROFI	LE RT 15 (47)	+21.52	MON
LOCALITY NEW YORK	STAMPING ON MARK	AGENCY (	CAST IN MARKS	ELEVATION	(FT)
WESTHAMPTON REAC			. E.	8.16	<del>(M)</del>
40° 47' 47.9	LONGITUDE	DATUM	. 1927	DATUM	
	1 72 38 1	1.0	- 1	M.L.	
(NORTHING) (EASTING) (F	10277052				BY (AGENCY)
		1/	AMBERT	C.O.	
(NORTHING)(EASTING) (F		** **/	ZONE	DATE	ORDER
(A	)	(M)		1974	THIRD
TO OBTAIN		GRID AZIMUTH, ADD		TO THE GEO	DETIC AZIMUTH
TO OBTAIN	1 KUM OUSTA	GRID AZ. (ADD)(SUB.)	. , ,	TO THE GEO	DETIC AZIMUTH
OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTA	NCE GR	ID DISTANCE ERS) (FEET)
RANGE LINE	339 00 00	0 / "			
RI4 REF. MON.	251 04 21				
& FLAGPOLE	69 16 21				
& WEATHER VANE	86 30 21				

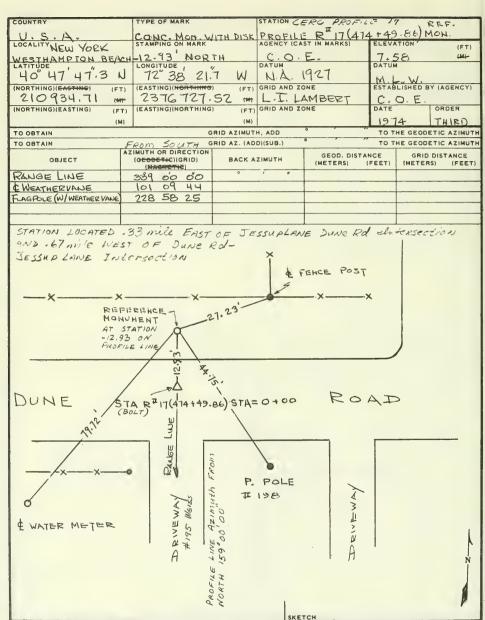
AND ONE WEST OF BEACH LANE - DUNE Rd TWERSECTION and 0.6 mi WEST OF BEACH LANE - DUNE Rd. INTERSECTION.

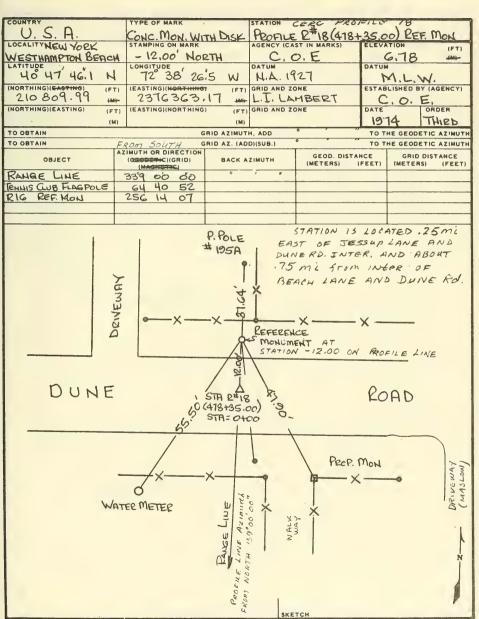


DA FORM 1959 REPLACES DA FORMS 1959 AND 1980, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
(TM 5-237)

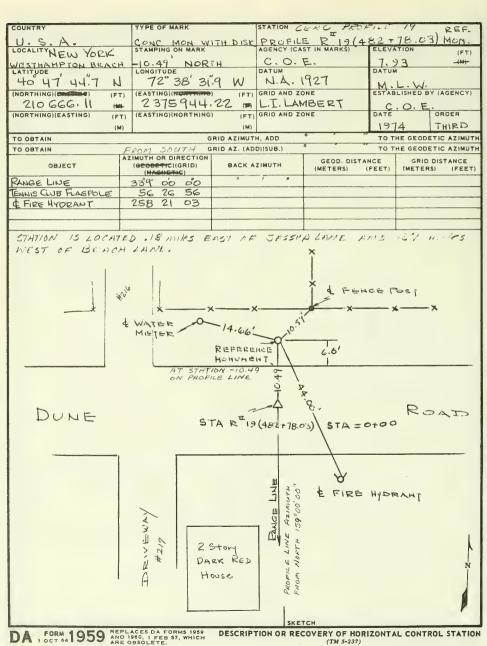
COUNTRY	TYPE OF MARK		STATION C				REF.
U. S. A.	CONC. MOH. W	ITH DISK	PROFIL	E R#16(A7	3+4	9.86)	YON.
LOCALITY NEW YORK	STAMPING ON MARK						(* * /
WESTHAMPTON BEACH	30.57 SOE	HTL	C. O. E		7.6		-(##)
40° 47 47.2 N	72° 38' 20	5.3 W	N.A.	1927	i .		
(NORTHING)(EXSTING) (FT)	(EASTING)(NORTHING	•	GRID AND ZO		ESTAE	LISHED B	Y (AGENCY)
210 926.26	2376837.		L.T. LA			0. E.	
(NORTHING)(EASTING) (FT)	(EASTING)(NORTHING	) (FT)	GRID AND ZO		DATE		ORDER
(M)		(M)			19	74	THIRD
TO OBTAIN		RID AZIMUTI		, , ,			TIC AZIMUTH
TO OBTAIN	THUTH OR DIRECTION	RID AZ. (AD	D)(SUB.)		тот	HE GEODE	TIC AZIMUTH
OBJECT	(GEODETIC)(GRID)	BACK A	ZIMUTH	GEOD. DISTAI (METERS) (	NCE FEET)	GRID (METER:	DISTANCE (FEET)
RANGE LINE	(MAGNETIC)	0	, ,	(METERS) (		(METER.	o, (FEEI,
WEATHER VANE	339 00 00 98 42 05					-	
FLAGPOLE (W/NEATHER VANE)	217 37 40						
The state of the s							
STATION LOCATED .	35 mi EAST	OF JE	esun in	NF - DUNG	Rd.	30200	50.72.12
4NO .65 mi NES	TOE BEAL	74 ZHA	F-The	in Rd. In	1dex	SI 07 11	2//
J. 10 7/11/2. 7. 7. 3	3-2-70						*.
	1	. 1					
		>					
		3					
		in fi					
		3					
x x -		R	P. P.	OLE			
^		A	●年1	19×1			
			· [				
	STA R# 16 (4	473+49.8	6) STA = 4	0+00			
	(BOLT)	· 4	/				
DUNE		- 2	,	ROA	$\subset$		
		57	•				
		0 A					
		17					
	REFERENC	E /				A	
	HOHUMEN7	0	37.	92'	-71	& FIR	E
AT ON F	STATION 30.57 PROFILE LINE				•	HIL	FANT
0	×/-	×	×_	×	_ X		
4	22	1.5					
RWEWAY	No. 0	INE AZIMUT.					
4	/	3 5					
3. 6		7 60					1
	1	The State of the s	1				1
H &	LAMP POST	ZINE 1					D.Y
		(24 -1 5	i i				Ĩ
		1 2					
		i -	-				4
		Kan Line 210					1
		- 1	SKET	гсн			
DA FORM 1959 REPLAND I	ACES DA FORMS 1959 960, 1 FEB 57, WHICH BSOLETE.	DESCRIPT	ION OR REC	OVERY OF HORI	ZONTA	L CONTR	OL STATION
1 OCT 64 DOD ARE O	BSOLETE.			(TM 5-237)			

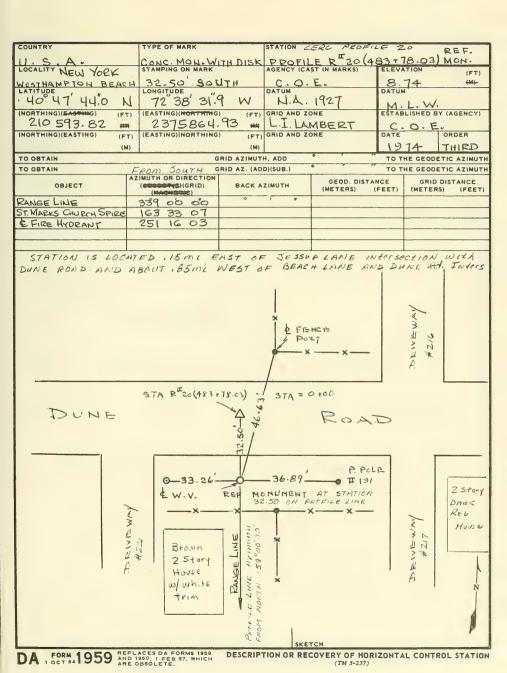


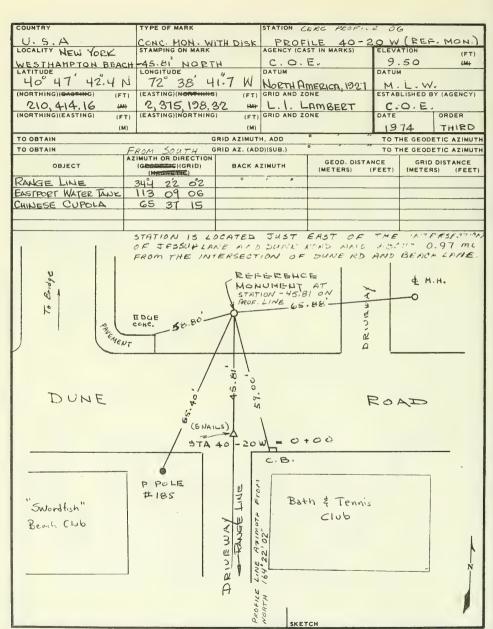


DA FORM 1959 REPLACES DA FORMS 1959
AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION For use of this form, see TM 5-237; the proponent agency is U.S. Continental Army Command.





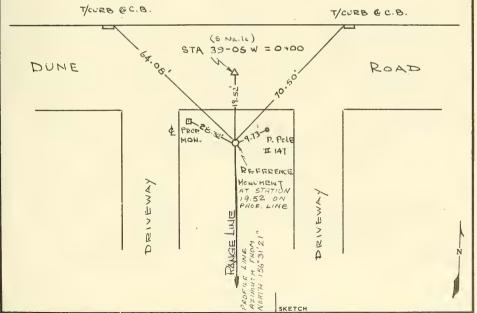


DA FORM 1959 AND 1960, 1 FEB 87, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
(TM 5-237)

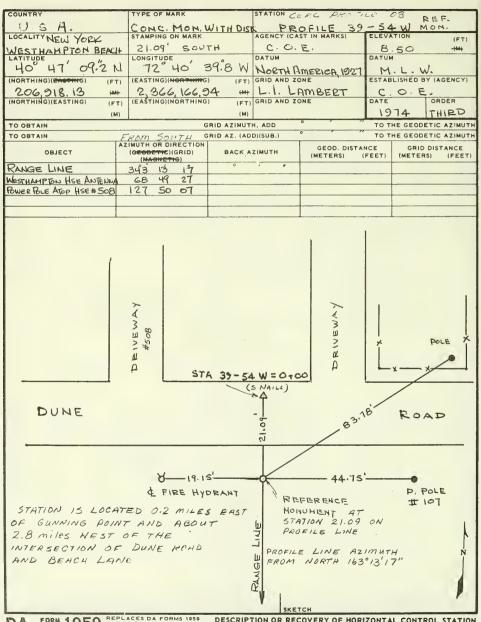
COUNTRY	TYPE OF MARK	\$	STATION LER	C PROFI	LE 07	
U. S. A.	CONC. HON W	JITH DISK	PROFILE	39-0	5 W ( RE	EF. MON.)
LOCALITYNEW YORK	STAMPING ON MARK	1	AGENCY (CAST I	MARKS)	ELEVATION	(FT)
WESTHAMPTON BEACH	19.52' 500-	TH	C. O. E.		10.34	-(34)
LATITUDE	LONGITUDE /		DATUM		DATUM	
40° 47 26.3	J 72° 39 3°	9:7 W 1	NORTH AMER	ACA, 1927	M. L.	W.
(NORTHING)(BASTING) (FT	(EASTING)(NORTHING	(FT)	GRID AND ZONE		ESTABLISHE	D BY (AGENCY)
208, 719,72 #	2,370,759.9	4 + + + + + + + + + + + + + + + + + + +	L. I. LAM	BERT	c.o.	E.
(NORTHING)(EASTING) (F	(EASTING)(NORTHING	) (FT)	GRID AND ZONE		DATE	ORDER
(9)	)	(M)			1974	THIRD
TO OBTAIN	G	GRID AZIMUTH		, ,,	TO THE GE	ODETIC AZIMUTH
TO OBTAIN	FROM SOUTH	GRID AZ. (ADD	)(SUB.)	, ,	TO THE GE	ODETIC AZIMUTH
OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK,AZ	імитн (1	GEOD. DISTAP METERS) (		RID DISTANCE ERS) (FEET)
RANGE LINE	336 31 21	۰	, N			
BO-MAR WATER TANK	155 31 23					
EASTPORT WATER TANK	121 22 48					

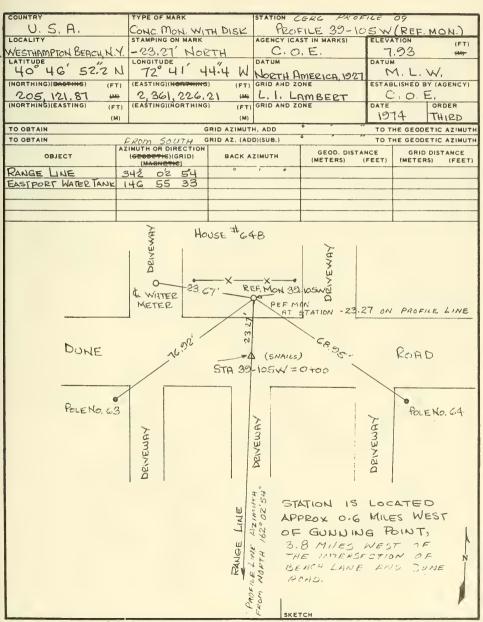
STATION IS LOCATED JUST UNDER 1.9 MILES WEST OF THE INTERSECTION OF REASE LANG AND DUNE ROAD, OBOUT O.1 MILE EAST OF PICKET POINT.

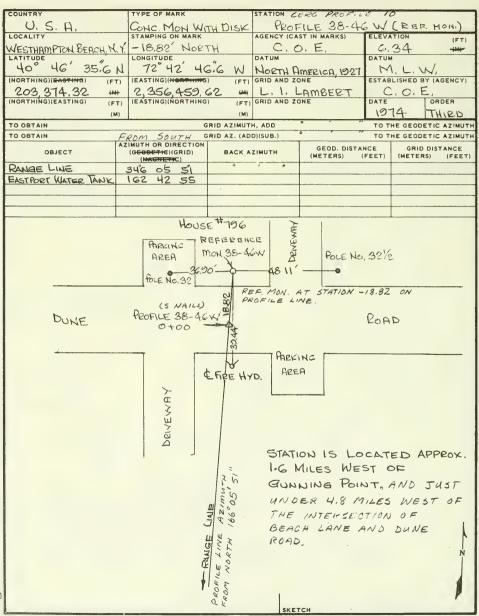


DA FORM 1959 REPLACES DA FORMS 1959 AND 1960, I FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION For use of this form, see TM 5-237; the proponent agency is U.S.Continental Army Command.







COUNTRY	TYPE OF MARK		STATION C	ERC PROFILE	5 11		
U. S. A.	CONC MON. WI	TH DISK	PROF		7 W	(REI	MOH.)
LOCALITY			_	ST IN MARKS)			(FT)
WESTHAMPTON BEACH, N.Y.	101,49 SOUT	-H	C.O	. E.	DATU	65	-(M)-
40° 46' 17.6 N	72° 43′ 49	"0 W					. /
	(EASTING)(NCRTHING			MERICA, 1927		1, L,	Y (AGENCY)
							. 1
201, 485,39 (FT)	2,351,688.7	18 ++++	GRID AND ZO	AMBERT	DATE	. O. E	ORDER
(1.17	(EASTING)(NORTHING	(, ,	GRID AND 20	JRE	19	71	
(M)		(M)		0 , ,			THIRD
TO OBTAIN		GRID AZIMUT		· , , , , , , , , , , , , , , , , , , ,			ETIC AZIMUTH
TO OBTAIN	FROM SOUTH C	INID AZ. (AD	D)(SUB.)	T		1	
OBJECT	(GEODETIC)(GRID)	BACKA	ZIMUTH	GEOD. DISTAR	NCE FEET)	GRID (METER	DISTANCE RS) (FEET)
RANGE LINE	(MAGNETIC)	0	- H	(	,	(1.72.1.2.1	
	342 49 33					-	
EASTPORT WATER TANK	178 07 11						
BO-MAR WATER TANK	145 41 57	-					
MORICHES C.G. ANTENNA	145 41 51						
POLE NO. 1C			7W = 0+0 =E 38-97( 14e)				DUNE ROAD
	No. 11	1.49 ON	PROFILE  STATION  3 MILES	IS LOCATES	: Ma	RICH	€S
	RANGE LINE PROFILE LINE ADIA		AREA A OF DUI 53/4 m	NO IS IN T THE WE VE ROAD, VLES FROM H LANE AN	EST, WH	END	IS N

## APPENDIX B

## PROFILE LINE SURVEY DATA

The survey data for the Westhampton Beach study are tabulated by profile line number and survey date (in the form YYMMDD). Distances are in feet from the profile line bench mark; elevations are in feet above MLW.

DATE 621011 TIME 1200	DATE 621029 SHVY P 0031 PMIT	D41F 621208 8RVY II TIME 1200	DATE 630107 SRVY 4 TIME 1200	DATE 630123 SRVY 5 TIME 1200	DATE 630207 SRVY 6 TIME 1200	11ME 1500 38AA A 091E 930551	047E 630312 88VY 8 71 = 1200
415.00 19.20 406.00 16.70 474.00 19.30 473.00 21.80 517.00 27.60 528.00 27.60 630.00 7.90 676.00 4.50 720.00 3.10 780.00 .50	#83*00 20,#8 517*00 28,10 531*00 18,*90 550*00 12,10 550*00 8,10 579*00 8,10 663.00 5,00 731*00 *50 741*00 *50 781*00 *50	537:00 16:00 577:00 9:30 620:00 6:30 65:00 3:90 710:00 2:90 741:00 1:90	98.00 2.30 188.00 5.10 281.00 9.20 370.00 16.20 420.00 20.80 443.00 17.90 458.00 16.60	4,00 4,00 4,00 4,00 4,00 4,00 4,00 4,00	548.00 15.00 558.00 12.90 604.00 7.90 702.00 3.30 728.00 290	333.00 26.00 536.00 27.00 362.00 13.30 562.00 19.40 613.00 8.20 654.00 6.10 710.00 3.40 761.00 1.60 618.0020	\$31.00 26.70 \$37.00 27.20 \$50.00 18.30 \$50.00 12.70 \$50.00 10.20 \$60.00 4.70 \$727.00 3.00 \$612.00 0.00
			PROF1				
OATE 630321 3RVY 9 TIME 1200	DATE 630409 SRVY 10 TIME 1200	DATE 630424 BRVY 11 TIME 1200	DATE 630509 SRVY 12 TIME 1200	Date 430617 SRVV 13 TIME 1200	DATE 630710 8RVY 14 TIME 1200	DATE 630813 SRVV 15 TIME 1200	DATE 630925 SRVY 16 TIME 1200
536.00 28.20 560.00 14.70 574.00 9.70 665.00 5.80 699.00 3.50 800.00 3.50	533-00 27.20 564-00 14.00 568-00 12.90 590-00 %.10 642-00 6.50 697-00 5.00 777-00 1.10 613-00 .10	563.00 14:10 568.00 12:80 608.00 7:50 649.00 5:30 711.00 5:20	509:00 27.60 559:00 13:00 598:00 8:30 659:00 7:17:00 5:90 717:00 8:50 708:00 1:50 841:00 -1:80	506,00 25,20 525,00 28,00 505,00 17,60 501,00 14,60 592,00 6.50 684,00 6.50 708,00 6.90 719,00 6.20 719,00 7.20 615,00 6.60 632,0030	561.00 13.20 563.00 9.70 611.00 7.70 666.00 6.70 723.00 8.20 746.00 8.50 797.00 1.90	517.00 26.40 524.00 27.90 525.00 17.00 555.00 17.00 616.00 7.50 610.00 7.50 610.00 7.50 610.00 7.80 752.00 8.60 620.00 2.00	\$25.00 27.70 \$45.00 17.30 \$55.00 13.70 \$601.00 8.80 \$6038.00 8.00 \$6048.00 7.80 \$725.00 7.80 \$700 \$7
			PROFI				
DATE 631030 8RVY 17 TIME 1200	DATE 631101 SHVY 18 TIME 1800	DATF 631115 8RVY 19 TIME 1200	DATE 640108 SRVY 20 TIME 1200	Date 640121 SRVY 21 TIME 1200	DATE 640312 SRVY 22 TIME 1200	DATE 640\$1; 89VY 23 TIME 1200	DATE 640713 SHVY 24 TIME 1200
\$19.00 25.10 \$57.00 13.30 631.00 6.60 678.00 7.20 729.00 7.40 771.00 5.20 811.00 1.80 836.0040	519.00 25.20 557.00 13.30 632.00 6.70 729.00 7.50 771.00 5.20 612.00 1.70 837.0060		517.00 26.10 527.00 27.20 540.00 18.70 560.00 14.80 599.00 10.50 671.00 7.50 725.00 4.20 811.00 2.30	518.00 26.40 527.00 27.30 543.00 18.40 561.00 9.80 692.00 5.20 707.00 3.70 751.00 3.20	588.00 10.00 620.00 7.20	\$20.00 26.00 \$28.00 26.60 \$48.00 17.80 \$782.00 10.30 \$618.00 6.20 \$698.00 6.20 \$723.00 7.20 \$613.00 -1.20	533.00 24.50 538.00 10.70 550.00 13.00 595.00 7.70 638.00 0.60 727.00 7.60 763.00 1.60
			PROFI				
DATE 640910 SRVY 25 TIME 1200	DATE 641105 SRVY 26 TIME 1200	DATE 650218 8PVY 27 7TMF 1200	0ATE 650412 SRVV 2A TIME 1200	DATE 650527 SRVV 29 TIME 1200	DATE 650816 SRVY 30 TIME 1200	DATE 660127 BRVV 31 TIME 1200	DATE 060419 8444 35 71ME 1500
523.00 27.20 540.00 17.50 562.00 12.50 610.00 7.20 702.00 9.10 783.00 1.90 819.00 0.00 834.00 =1.10	542-00 17-00 560-00 13-00 586-00 9-70 677-00 10-30 718-00 7-70	578.00 11.70 647.00 6.70 673.00 5.90 772.00 3.10 783.00 .50	519.00 28.20 539.00 18.3n 572.00 12.50 602.00 9.40 646.00 8.70 716.00 6.50 734.00 4.70	520,00 26.80 566,00 12.50 559,00 5.50 690,00 7.50 745,00 6.60 794,00 2.20 615,00 1.10	539.00 18.00 554.00 16.00	513.00 27.80 526.00 20.20 536.00 16.80 564.00 12.20 609.00 7.30 711.00 2.20	554.00 10.00 568.00 12.40 606.00 8.30

							*****	***							
SRVY TIME	660830 34 1200	SRVY TIME	670113 35 1200	59VY	670215 36 1200	SRVY TIME	670501 37 1200	Sana	670726 38 1200	SRVY TIME	670921 39 1200	SAVY	671107	SRVY	671206 41 1200
524.00 547.00 561.00 584.00 612.00 649.00 717.00 753.00 792.00 848.00	16-40 12-40 10-90 7-50 6-10 7-70 8-00 9-50 2-20	530 000 552 000 601 000 655 000 706 000 763 000 813 000 840 000	9.50 5.50 2.00	517.00 541.00 546.00 702.00 762.00	6.40	736+00 752+00	7.00	519.00 546.00 629.00 670.00 723.00 772.00 783.00 800.00	24.00 14.20 9.80 5.70 6.30 8.20 4.70	512.00 535.0 598.0 694.0 733.0 780.0 821.0	5.90 1.00 10	510.00 5%1.00 642.00 686.00 751.00 760.00 791.00 814.00	28.60 12.20 6.20 6.10 9.20 6.00 4.90 3.10	522.00 583.00 617.00 680.00 729.00 761.00	27.50 12.60 9.10 7.60 8.00 5.90 .30
							PROFI								
DATE SRVV TIME	680105 42 1200	DATE SRVY TIME	680111 43 1200	DATE SPVV TIME	680118	DATE SHIT SHIT	680124 45 1200	DATE SRVV TIME	680131 46 1200	DATE SRVY TIME	680207	DATE SRVV TIME	680214 48 1200	SPVY TI=E	680220 49 1200
492.00 513.00 523.00 549.00 570.00 578.00 614.00 718.00 783.00 840.00	28.50 24.80 21.40 12.70 12.90 9.90 7.40 3.30 1.90	508 0 0 0 514 0 0 0 530 0 0 0 0 548 0 0 0 582 0 0 0 682 0 0 0 682 0 0 0 682 0 0 0 682 0 0 0 682 0 0 0 682 0 0 0 0 682 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15.89 18.80 12.50 9.80 7.80 9.80 7.80 8.30 8.50 8.50 8.40 8.10	625.00 677.00 747.00 750.00 755.00 847.04	10.40 12.80 9.00 6.00 4.50 2.90 3.60	508+90 515+00 528+00 550+00 570+00 579+00 707+00 747+00 754+00 765+00 785+00 821+00 820+00	16.90 12.20 12.70 9.80 4.40 2.90 3.90 4.90 5.50	579.00 619.00 670.00 739.00	17.10 13.30 9.80 6.70 5.30	516-00 529-00 549-00 568-00 577-00 611-00	28.30 21.60 15.40 12.70 12.90 10.00 7.20 5.40	517.00 540.00 555.00 55.00 557.00 57.00 57.00 722.00 750.00 794.00	28.30 18.80 12.30 9.20 7.20 5.50 3.60 3.10 2.20	529.00 544.00 501.00 601.00 65.00 753.00 774.00	26.20 21.20 17.30 13.50 10.20 7.40 5.40 2.80 3.60
							PROFI	LE 1							
TIME	680228 50 1200	SRVY:	60306 51 1200	9417 9417	1200 1200	TIME	680322 51 12n0	LIME	680327 94 1200	DATE SRVY TIME	681119 55 1200		690117 56 1200	TIME	690129 57 1200
508.00 515.00 530.00 561.00 576.00 654.00 660.00 711.00 744.00 600.00	24.90 28.30 21.10 13.40 13.90 9.60 7.90 5.60 6.90 3.00	507.00 518.00 531.00 560.00 578.00 599.00 663.00 701.00 742.00 608.00	24.70 20.80 13.10 14.00 17.70 6.30 4.20 8.10	508.00 517.00 534.00 566.00 602.00 657.00 719.00 784.00 835.00	28.40	508-00 517-00 531-00 569-00 619-00 730-00 759-00	25.00 26.20 21.40 13.60 9.90 4.10 3.50	508.00 517.00 530.00 565.00 576.00 600.00 644.00 644.00 733.00 784.00	20.90 28.10 21.10 13.00 15.00 10.10 A.70 5.20 4.10 1.60 20	504.00 509.00 531.00 566.00 598.00 651.00 708.00 762.00 814.00 851.00	25.30 18.70 13.90 11.40 7.30 4.50 2.80	497.00 504.00 519.01 524.00 572.00 614.00 686.00 724.00 736.00 819.00	23.20 25.20 20.20 13.90 14.80 9.00 8.40 7.60	509.00 553.00 500.00 567.00 609.00 647.00 704.00 746.00 803.00 808.00 912.00	28.00 14.80 13.80 15.30 9.70 8.80 6.90 0.00 1.90
							PROF1								
TIME	690207 58 1200	TIME	690213 59 1800	TIME		TIME		OATE SRVY TIME	690314 63 1200	8RVY TIME	640321	TIME	690618 65 1200	11×E	690918 66 1200
504.00 512.00 521.00 559.00 616.00 667.00 707.00 736.00 646.00 929.00	26.50 27.70 23.50 13.60 14.30 8.70 6.30 5.30 5.10 .10 .20	504-00 510-00 521-00 534-00 552-00 562-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00 670-00	25.70 19.90 18.90 18.10 12.10 12.10 6.30 6.30 6.30 6.30 6.30	504-00 504-00 521-00 568-00 612-00 668-00 718-00 738-00	14.60 12.60 9.30 8.60 7:10 6.00 1.50	632.00 677.00 684.00 743.00 789.00 822.00 868.00 917.00	14-10 12-60 9-30 9-00 9-87 6-10 7-10 7-50 3-90	639.00 682.00 746.00	27.90 19.70 18.70 13.50 9.60 8.40 5.60 9.60	492.00 504.00 509.00 525.00 604.00 639.00 853.00 909.00	28.00 19.30 18.10 10.60 8.80	503-00 516-00 533-00 551-00 618-00 661-00 718-90 761-00 633-00	23.80 27.50 16.60 14.20 13.50 9.80 9.60 9.60 9.60 7.30	554.00	

SRVY	691125	DATE SRVY TIME	1200	SRVY	1200	5HVY	700122 70 1200	DATE SRVY TIME	700129 71 1200	DATE BRVY TIME	1200	BRVV	700218 73 1200	8PVY TI™E	
503+00 534+00 558+00 575+00 608+00 658+00 770+00 783+00 815+00	24.30 26.40 18.20 13.40 14.40 10.50 9.10 6.50 2.60	503400 51300 53400 57500 60800 74100 78300 82600	20.80 18.20 13.40 13.40 14.40 10.10 6.70 4.20 3.40	512 - 00 576 - 00 612 - 00 640 - 00 709 - 00 754 - 00 602 - 00	12:70 14:30 10:50 7:50 5:40 3:50 :80 1:70	513.00 563.00 605.00 626.00 671.00 718.00 718.00 623.00	12.80 14.20 11.00 11.00 5.80 3.40 4.70	515.00 574.00 597.00 629.00 676.00 742.00 607.00	13.00 15.00 12.40 10.00 5.30 5.60 2.30	512 · 00 534 · 00 554 · 00 573 · 00 597 · 00 621 · 00 727 · 00	17.50 13.20 15.00 12.60 11.00	513000 53000 55000 57700 59700 65000 70900 74400 79500	26.20 17.50 12.90 14.70 12.70 7.10 2.10 1.00 2.00	535.00 576.00 597.00 626.00 647.00 642.00	14.60 12.60 10.40 6.70
							PROF								
SRYY	700305 75 1200	SRVY	1200	89VY	700318 77 1200	SHVY	700507 78 1200	SRVY	700812 79 1200	SAVY 3mit	700930 80 1200	TIME	701201 81 1200	8RVY TIPE	701218 62 1200
530.00 564.00 571.00 645.00 700.00 700.00	17.30 13.00 15.40 12.80 4.20 1.50 4.20	537.00 558.00 579.00 642.00 679.00 712.00 787.00	13.00 15.50 12.50 7.10 4.60 3.90	535 • 0 0 0 572 • 0 0 0 6 45 • 0 0 0 771 • 0 0 0 0 0 0 37 • 0 0 0	12:70 14:90 12:60 8:50 6:70 4:10 4:40		12.40 14.90 9.30 7.00 4.80 2.30 1.00 1.40	500-00 521-00 535-00 570-00 601-00 701-00 751-00 761-00 651-00	2P.70 19.10 11.90 12.10 7.50 5.90 7.40 1.30 2.40	540.00 558.00 576.00 621.00 667.00 745.00 745.00 821.00	12.40 14.50 12.30 9.50 6.30 7.00 8.30 7.30	536.00 558.00 578.00 596.00 671.00 671.00 768.00 871.00	17.50 12.40 14.70 12.40 8.90 8.50 .70 .2.60		10.90 12:30 14:00 12:30 9:70 7:00 5:20 5:20
							PROFI								
SRVY	710106 83 1200	SRVY TIME	710212 84 1800	SRVY	710309 #3 1200	SRVY	710408 84 1240	SOVY	710604 R7 1200	5RVY TIME	710811 88 1200	SRVY	711008 89 1260	8RVY TIME	711201 90 1200
541.00 550.00 574.00 590.00 601.00 711.00 750.00 600.00	17.50 12.50 14.60 12.40 10.20 7.50 8.30 3.50 -1.80	537.00 556.00 574.00 596.00 641.00 655.00 727.00 747.00 774.00 796.00	17.30 12.60 15.70 12.40 10.40 7.70 4.50 2.00 -1.40 +2.60	534.00 577.00 579.00 594.00 617.00 654.00 710.00 757.00	13.00	509.00 521.00 533.00 553.00 577.00 627.00 627.00 655.00 735.00 769.00 769.00	26.20 23.60 19.80 12.80 15.00 12.80 10.30 8.60 3.30 9.90 9.210	539.00 558.00 573.00 590.00 659.00 666.00 675.00 735.00 768.00 797.00	17.80 13.10 16.00 17.50 9.60 8.80 7.40 7.40 7.40 1.60 e1.00	537.00 579.00 623.00 656.00 701.00 743.00 773.00 789.00 805.00	15.50 11.10 9.50 9.70 6.00 2.40	576.00 508.00 537.00 579.00 579.00 623.00 623.00 656.00 701.00 746.00 746.00 778.00 803.00 803.00	25.70 24.10 17.70 13.10 15.40 15.50 11.10 9.80 9.40 6.20 2.10 70	578.00 623.00 673.00 727.00 729.00 648.00 673.00	15 · 60 11 · 50 9 · 70 5 · 50 1 · 60 - 1 · 90
							PROFI								
SRVY	720103 91 1200	TIME	720131 92 1200	SRVY	720205 93 1200	TIME	720222	SOVY	720301 95 1200	SRVY TIME	720328	TIME	720531	SAVY	720809 98 1200
542.00 558.00 579.00 610.00 623.00 671.00 712.00 761.00 765.00 810.00	17.30 13.80 15.50 12.50 11.50 9.30 7.70 3.50 0.60 0.60	529.00 554.00 560.00 619.00 658.00 600.00 703.00 737.00 800.00	19,50 13,60 15,50 12,00 9,50 9,50 9,50 9,50 9,50	580.00 607.00 623.00 634.00 674.00 733.00 778.00	15.00 13.20 11.00 10.00 0.50 3.90 0.80	553.00 571.00 580.00 605.00 640.00 652.00 669.00 738.00 758.00	13.00 15.87 15.80 13.00 8.10 7.20 6.10 5.60 4.30 0.00	554.00	20:10 13:80 15:70 15:70 15:10 10:10 8:10 6:30 5:80 -2:50 -:50 -:80	53A.00 557.00 575.00 580.00 608.00 649.00 688.00 748.00 774.00 774.00 774.00 812.00 830.00	13.90 15.60 15.60 13.30 8.00	528.00 541.00 557.00 574.00 579.00 602.00 623.00 711.00 745.00 774.00 627.00 627.00 681.00 681.00	20-50 14-00 15-90 15-90 15-80 7-80 7-80 5-30 4-30 -80 -80	517.00 557.00 579.00 624.00 659.00 673.00 734.00 641.00	20.50 14.00 15.90 10.40 6.40 7.50 9.00 7.90 10.40 8.00 7.50

PPOFILE 1

							PD0F								
SRVY	1200	SRVY TIME	721205 100 1200	SRVY	730103 101 1200	34 V Y	1200	5 R V Y	730213 103 1200	SRVY TIME	730316 10# 1200	DATE SRVV TIME	730324 105 1200	04TE 59VV T1ME	1200
522.00 541.00 562.00 579.00 623.00 664.00 724.00 764.00 784.00	16:10 14:20 15:80 13:40 10:80 7:00 8:80 6:10 4:20 4:80 1:10	522.00 549.00 572.00 608.00 627.00 719.00 780.00 780.00 813.00	15.20 10:00 14:40 11:60 10:20 10:40 5:10 1:90	5249+00 519+00 605+00 605+00 605+00 707+00 711+00 811+00 845+00	14.60 16.10 14.30 11.60 8.00 8.90 4.40 3.60	523.00 549.00 579.00 627.00 669.00 744.00 780.00 829.00	7.80 7.00 6.50 2.10	524.00 547.00 579.00 632.00 632.00 634.00 729.00 754.00 819.00 84.00	10.90 9.40 5.00 1.30 1.50	579.00 596.00 622.00 649.00 674.00 705.00 726.00	13.90 16.30 14.60 11.60 5.70 5.00 5.50 2.60	510 - 00 544 - 00 555 - 00 579 - 00 612 - 00 654 - 00 671 - 00 703 - 00 724 - 00	14.20 15.20 16.40 14.60 13.10 10.80 7.30 5.60		14.00 15.30 10.40 14.30 10.80 8.10 8.10 8.10 4.90 2.30
							PROF								
04TE 39VY TINE ===== 521.00 579.00 679.00 688.00 688.00 777.00 757.00 836.00 836.00	200 - 100 - 140 - 200 - 150 - 80 - 100 - 80 - 100 - 80 - 80 - 80 -	SHVY TIME	1800 20.90 14.30	, SRVY	20.90										
							PROF!								
SRVY	621011	SRVY	621n29 2 1800	SRVY	1200	TIME	1200	SPVV	630123	8844	630207	3 R v y	630221	DATE BRVY TIME	630312
41.00 72.00 229.00 314.00 404.00 531.00 531.00 575.00 602.00 675.00 720.00 789.00	5 · 10 5 · 00 11 · 30 10 · 40 12 · 30 24 · 70 18 · 20 13 · 60 8 · 60 8 · 60 8 · 60 4 · 60 2 · 40 1 · 60	475 0 0 0 0 5 27 0 0 0 0 5 27 0 0 0 0 5 3 4 0 0 0 0 5 5 2 0 0 0 0 5 5 2 0 0 0 0 5 7 0 0 0 0 7 7 8 0 0 0 0 7 7 8 0 0 0 0 0	19.80 21.80 25.80 39.30 18.00 11.50 9.70 9.70 9.70 0.30 7.00	4A4.00 576.00 567.00 655.00 695.00	19-50 26-70 13-20 5-70 2-00	0 = 00 80 = 00 1 a 8 = 00 4 2 8 = 00 4 2 8 = 00 5 5 7 = 00 5 5 7 = 00 6 5 1 = 00 6 7 4 = 00 7 5 2 = 00 7 5 3 = 00	5.00 5.30 11.30 13.30 13.70 18.20 21.80 26.50 17.10 12.30 7.30 6.90 6.90 6.90	5.00 14.00 60,00 347.00 412.00 550.00 550.00 560.00 560.00 709.00 709.00	4 . 90 4 . 20 4 . 70 11 . 60 11 . 70 13 . 70 24 . 20 15 . 20 7 . 90 8 . 80 9 . 90 • . 50	530.00 570.00 617.00 617.00 688.00 741.00	26:00 12:60 8:50 8:80 7:50 :40	527.00 544.00 572.00 606.00 692.00 715.00 775.00	26.70 17.80 12.60 8.80 3.40 0.00	520.00 528.00 549.00 579.00 611.00 660.00 704.00 715.00 765.00	25.80 26.00 18.10 9.00 8.70 4.00 2.50 =.70
							PROFI								
SRVY TIME	630321 9 1200		630409 10 1200	8PVV TIME	630424 11 1200	9444 71me	630509	TIME	630617 13 1200	SHVY	630710	3 0 4 4 7 1 ME	630813 15 1200	SRVY TIME	630925 16 1200
\$26.00 546.00 592.00 615.00 653.00 692.00 751.00 778.00	26.30 17.30 9.70 6.70 8.70 5.10 1.60 0.00	527.00 545.00 590.00 611.00 660.00 704.00 749.00	24.20 18.30 9.70 4.00 8.50 6.10 0.00	528.00 581.00 641.00 641.00 787.00 787.00 788.00 830.00	25.70 17.10 10.80 8.60 7.70 1.60 =.80 e1.40	528.00 547.00 573.00 609.00 651.00 699.00 779.00	25.40 18.50 12.30 8.70 6.40 6.40	496.00 522.00 556.00 577.00 613.00 658.00 666.00 734.00 734.00	22.70 26.20 15.90 11.20 8.70 8.60 8.70 3.60	613.00 667.00 709.00 722.00 742.00 758.00 602.00 622.00	8.70 8.80 0.70 7.30 7.20 6.10 1.20	522.00 550.00 569.00 600.00 615.00 644.00 701.00 724.00 782.00 782.00	25.40 16.90 13.00 9.60 9.00 8.60 A.70 7.30 7.10 5.10	524.00 576.00 611.00 651.00 690.00 750.00 779.00 802.00	26.30 11.40 6.70 8.40 9.00 4.20 2.30 1.30

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8844	631030 17 1200	DATE SRVY TIME	631101 18 1800	BRUY	631115 19 1200	SHVY	1200	3 n V V	640121 21 1200	SRVY	640312 22 1200	SRVY	640511 23 1200	SRVY	640713
536.00 572.00 541.00 643.00 743.00 749.00	26.50 15.60 11.60 8.90 8.90 1.60	537.00 572.00 593.00 640.00 693.00 742.00 798.00 834.00	20.40 13.60 11.50 8.90 8.60 3.50	584.00 592.00 647.00 716.00 742.00	13.10 11.90 7.60 6.20 6.80	523.00 551.00 577.00 651.00 699.00 739.00	26.90 16.90 12.00 6.90 5.80 2.20	522.00 545.00 877.00 620.00 663.00 693.00 712.00	24.80 19.00 19.00 7.20 5.70 4.00 2.40	557.00 591.00 624.00 676.00 699.00 732.00 759.00	15.80 10.90 7.30 6.60 3.50	524.00 532.00 578.00 619.00 671.00 723.00	27.00 22.00 11.70 9.00 9.20 1.10	525.00 546.00 565.00 613.00 684.00 712.00	27.00 17.90 13.60 9.00 8.50 3.10
							PROFI								
DATE SRVY TIME	640910 25 1200	DATE SHVY TIME	641105 26 1300	DATE SRVY TIME	650218 27 1200	DATE SRVY TIME	650412 28 1200	DATE SRVV TIME	650527 29 1200	SRVY TIME	650816 30 1200	DATF BRVV TIME	660127 31 1200	DATE BRVV TIME	
527.00 542.00 579.00 621.00 675.00 753.00 605.00	27.00 18.80 11.20 8.60 9.30 1.20	518.00 560.00 597.00 642.00 727.00 756.00 790.00	27.00 13.40 10.00 7.60 5.00 5.40 3.90 1.70	517.00 545.00 608.00 684.00 695.00 766.00	27.40 16.70 10.00 7.20 8.00 0.00	549.00 608:00 661:00 699:00 719:00	16.90 10.00 6.70 7.20 4.60	523.00 565.00 595.00 640.00 685.00 734.00 764.00 815.00	27.00 14.20 10.90 8.10 7.80 4.40 6.20	523.00 549.00 571.00 636.00 681.00 720.00 750.00	76.90 17.40 12.90 8.10 8.20 7.60 6.20 4.00	525.00 544.00 567.00 625.00 707.00	28+10 19+10 14+50 8+00 2+70	524.00 551.00 636.00 666.00 710.00	27:90 17:80 7:00 8:70 4:70
							PROFI	LE 2							
DATE BRVY TIME	660620 33 1200	DATE SRVY TIME	660830 34 1200	DATE SRVV TIME	670113 35 1200	SHVV	670215 36 1200	Date Savy Tjmg	670501 37 1200	SRVY	670726 35 1200	DATF SRVY TIME	670921	11mF	671107 40 1200
\$24.00 \$55.00 \$71.00 632.00 691.00 753.00	27.10 14.90 11.90 6.00 7.90 e.90	521.00 549.00 572.00 623.00 666.00 734.00 778.00	27.00 17.50 13.20 9.00 9.10 3.50 1.60	523:00 530:00 619:00 670:00 710:00 739:00	27.40 20.10 8.90 6.60 3.30	524:00 540:00 555:00 610:00 650:00 695:00	27.90 20.20 16.70 9.20 8.60 3.80	\$24.00 \$51.00 674.00 690.00	27.50 17.00 4.20 3.10	522.00 548.00 569.00 604.00 651.00 689.00 729.00	25.50 17.60 13.60 13.00 10.50 7.60 7.10 2.70	520.00 548.00 604.00 615.00 706.00 771.00 789.00	28.70 17.60 8.20 9.00 3.90 5.80 3.70	\$22.00 546.00 585.00 635.00 678.00 709.00 750.00 756.00	27.90 17.10 12.60 8.40 8.40 9.30 4.00 2.70
							PROFI	LE 2							
TIME	671206	SRVY TIME	680104 42 1200	SRVY TIME		TIME	680118 44 1200	SRVV	45 1200	TIME		AUA AUA AUA	680207 - 47 1200	TIME	660214 46 1200
518 · 00 560 · 00 662 · 00 684 · 00 806 · 00 822 · 00	26.70 13.70 8.50 5.90 5.40 5.90 5.70	464+00 493+00 503+00 514+00 524+00 558+00 598+00 633+00 649+00 706+00 748+00	19.90 22.40 24.30 27.90 20.30 10.10 10.80 0.50 5.30 4.70 0.00	503+00 515+00 530+00 5%5+00 5%0+00 590+00 630+00 731+00 750+00	24.30 28.20 19.10 14.80 14.20 10.90 10.90 6.20 5.50 2.80 2.80	493 × 00 505 × 00 514 × 00 529 × 00 564 × 00 624 × 00 711 × 00 761 × 00 787 × 00	72.50 26.40 26.40 15.00 13.00 1.80 4.70 1.80 2.00	492.00 503.00 515.00 530.00 540.00 568.00 568.00 568.00 701.00 740.00 772.00 783.00	27.40 28.40 21.70 17.00 14.40 12.20 8.30 5.00 1.90 1.40	517+00 524+00 558+0 572+00 604+0 644+0 673+00 720+00 734+00	26.30 25.20 14.50 13.50 6.80 6.80 7.30 1.20	\$16.00 \$20.00 \$44.00 \$61.00 \$81.00 616.00 655.00 691.00	26.30 17.30 14.30 13.20 6.10 4.80 .40	506.00 516.00 541.00 564.00 561.00 591.00 656.00 711.00 725.00	25.20 28.20 18.60 14.30 13.20 10.70 6.10 -1.60
							PROFI								
SRVY TIME	680220 49 1200	SHYY	680228 50 1200	DATF SRVV TIMF	680306 51 1200	DATE SHVY T1HE	52 1200	DATE SDVY TIME	53 1200	TIME	680327 54 1200	3 R V Y	681119 55 1200	3 4 4 4 7 1 4 E	690117 56 1200
504.00 510.00 533.00 559.00 560.00 607.00 633.00 663.00	28.10	511:00 529:00 559:00 580:00 623:00 680:00 704:00	28.00 23.70 14.80 12.90 8.10 8.30 5.80	512.00 543.00 573.00 603.00 659.00 705.00	28.10 16.10 14.10 10.60 5.70 6.10 3.00	508.00 515.00 531.00 559.00 560.00 634.00 739.00	26.00 28.10 21.50 14.80 12.90 8.50 3.70	\$04.00 516.00 528.00 564.00 664.00 704.00 733.00	24.80 28.20 22.70 14.80 4.80 4.20 3.20	493.00 511.00 516.00 541.00 598.00 644.00 684.00 738.00	22.50 26.30 28.30 18.20 11.20 6.10 6.10	519.00 525.00 534.00 559.00 560.00 670.00 657.00 686.00 702.00 733.00	28.90 25.60 22.00 15.00 13.60 11.00 4.60 4.60 4.30 4.20	494.00 \$17.00 \$24.00 554.00 580.00 583.00 621.00 661.00 725.00 742.00	22.50 28.30 27.60 15.40 13.70 11.10 9.60 7.90 3.80 20 -1.90

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DATE E BRVY TIME	57 1200		690207 58 1200	DATE SRVY TTME	690213 59 1200	DATE SRVY TIME	690228	Date Sevy Time	690310 62 1200	DATE BRVY TIME	690314	DATE SRVV TIME	690321	DATE SRVY TIME	690618 65 1200
670.00	17.90 14.80 13.80 11.90 6.90 4.70	543.00 561.00 576.00 582.00 606.00 674.00 721.00 838.00	17.80 18.80 11.60 9.20 7.90 4.60 40	543:00 561:00 577:00 616:00 616:00 684:00 739:00 822:00 912:00	17.90 14.70 14.00 10.00 6.70 6.70 0.40 .90	543=00 566=00 576=00 610=00 623=00 651=00 676=00	18.00 14.70 13.90 11.00 8.50 5.80 2.00	543.00 557.00 577.00 585.00 613.00 626.00 676.00 793.00 886.00 953.00	17.50 18.40 13.60 8.90 7.00 6.70 -80 -10 -2.10	543.00 561.00 570.00 570.00 570.00 623.00 671.00 723.00 868.00 963.00	18.00 14.90 14.10 8.60 7.40 1.80 1.80 =1.00 =3.00	451.00 461.00 479.00 494.00 513.00 520.00 544.00 587.00 651.00 721.00 639.00	19.60 20.00 20.90 22.60 27.10 17.10 14.10 9.20 2.50 -2.00	522.00 551.00 562.00 592.00 630.00 679.00 717.00 607.00 607.00	26 - 10 16 - 60 13 - 60 10 - 30 6 - 60 7 - 70 7 - 70 7 - 10 1 - 50 - 2 - 70
DATE 6 SRVY TIME		DATE SHVY TIME	691129 67 1200	SRVY	691220 68 1700	DATE SHVY TIME	700115 69 1200	SAAA	700122 70 1200	3140 4448 3417	700129 71 1200	8844	700211 72 1200	DATE SRVY TIME	
543.00 569.00 577.00	26.30 16.00 14.30 14.30 11.30 5.60 7.00 6.60 7.70 2.80 -2.10	\$19.00 \$30.00 \$44.00 \$75.00 \$75.00 \$75.00 \$70.00	28.40 22.90 17.80 15.90 14.00 12.70 9.60 12.30 12.30 12.60 9.60 9.60 9.60 9.60	519.00 530.00 544.00 577.00 577.00 642.00 644.00 744.00 864.00 914.00	28.40 22.90 17.20 14.70 13.90 11.40 7.20 8.60 9.90 3.00 0.00 	518.00 527.00 527.00 557.00 575.00 517.00 619.00 707.00 815.00 887.00	26.60 24.10 18.20 15.30 14.50 10.10 6.50 9.60 5.80 4.50 .30 -2.70	\$20.00 542.00 562.00 571.00 621.00 624.00 646.00 704.00 713.00 811.00 864.00	28.60 17.80 14.80 14.00 9.50 9.40 6.10 6.10 6.25 9.40	519.00 544.00 577.00 577.00 565.00 602.00 657.00 702.00 719.00 827.00 830.00	28.60 17.90 14.70 14.10 10.60 8.80 9.30 7.20 7.20 2.30	510.00 550.00 570.00 501.00 501.00 500.00 600.00 700.00 700.00	28.50 14.50 14.50 4.40 10.00 10.00 11.20 2.30 -1.30	518.00 544.00 562.00 602.00 649.00 726.00 726.00 797.00	28,30 17,00 14,00 14,10 9,70 10,20 7,40 7,40 7,10 5,30 -2,00
							PROF!								
TIME	700225 74 1200	SHVY TIME		3944 T1HF	700312 76 1200	44.56 3414	700318	Date Sevy Time	700507 78 1200	38V4	700812	SRVY	700930 80 1200	8×47 71≈€	701201 61 1200
544.00 549.00 576.00 642.00 647.00 773.00 748.00 796.00	2A - 1 0 17 - 90 14 - 90 14 - 90 9 - 30 10 - 20 7 - 80 6 - 40 3 - 00 - 80 - 3 - 10	544.00 501.00 570.00 591.00 630.00 698.00 844.00 892.00	17.90 14.70 14.30 9.90 10.10 11.30 2.60 40	\$44.00 \$60.00 \$77.00 \$96.00 644.00 741.00 786.00 827.00 846.00	17.60 14.70 14.20 10.40 10.20 7.20 3.60 10	544-00 548-00 581-00 590-00 644-00 741-00 741-00 821-00 873-00	18.10 15.00 14.20 9.40 10.30 11.30 7.40 3.50 1.10	544.00 574.00 574.00 565.00 645.00 645.00 738.00 70.00 608.00 608.00 608.00 608.00	17.50 14.40 17.90 11.20 10.20 11.00 7.10 4.20 .60 .80	544.00 580.00 580.00 598.00 653.00 678.00 762.00 764.00 804.00 857.00 877.00	17.90 15.40 13.90 10.80 9.30 10.90 8.50 9.10 6.70 1.90 0.00	544.00 571.00 580.00 580.00 674.00 671.00 706.00 706.00 706.00 706.00 706.00 706.00	17.80 14.70 13.70 11.10 9.70 10.70 10.70 10.80 9.80 7.40 3.80	567.00 578.00 592.00 637.00 707.00 707.00 755.00 798.00 820.00 840.00	14 • 70 14 • 10 9 • 90 10 • 10 11 • 10 10 • 80 6 • 90 • 2 • 80 • 2 • 10
							PROFI								
TIME	701218 R2 1201	SHVY	710106 83 1200	RRVY	710212	3444	710309 84 1200	DATE SRVY TIME	710408 #6 1200	SRVY	710604	SRVY	710811 88 1200	SHVY	711008 89 1200
574-00 579-00 584-00 597-00 634-00	14.70 14.40 13.80 10.80 10.00 10.50 10.80 7.80 5.20	544.00 550.00 629.00 649.00 649.00 724.00 766.00 724.00 824.00 844.00	18 + 0 0 14 + 8 0 11 + 0 0 10 + 9 0 9 + 2 0 8 + 8 0 9 + 2 0 8 + 8 0 8	544-00 561-00 575-00 575-00 587-00 687-00 687-00 725-00 735-00 838-00	17.80 14.60 14.40 11.20 11.20 11.20 7.60 3.50 0.00	544.00 551.00 574.00 587.00 624.00 675.00 712.00 771.00 802.00	17.80 14.60 14.50 14.50 11.20 10.30 10.60 6.30 3.20 -90	544.00 565.00 587.00 657.00 659.00 701.00 744.00 792.00 619.00	17.80 14.90 14.40 11.80 11.50 8.50 5.60 1.30	544.00 560.00 579.00 584.00 616.00 674.00 709.00 733.00 761.00 784.00 807.00	17.80 14.70 14.10 11.80 11.80 10.10 8.80 2.90 .30	544.00 561.00 575.00 575.00 616.00 640.00 675.00 729.00 771.00 793.00	18.20 14.60 14.60 14.10 11.80 11.20 10.40 6.40 2.20 .40	5 4 4 . 0 0 5 6 2 • 0 0 5 7 5 • 0 0 6 3 3 • 0 0 6 7 9 • 0 0 6 7 2 • 0 0 7 2 0 • 0 0 7 6 1 • 0 0 7 6 1 • 0 0	16.10 14.70 14.70 14.50 11.80 12.60 9.20 6.60 2.50 .40

DATE 7112^1 BRVY 90 TIME 1200	DATE 720103 SHVY 91 TIME 1200	DATE 720131 SRVY 92 TIME 1200	DATE 720205 SHVY 93 TIME 1200	DATE 720222 SRVY 94 TIME 1200	DATE 720301 SRVY 95 TIME 1200	DATE 720328 SRVV 96 TIME 1200	DATE 720531 SHVY 97 TIME 1200
544.00 18.10 551.00 14.80 580.00 15.90 553.00 12.80 620.00 11.60 675.00 12.00 772.00 4.20 772.00 2.10 805.0090	544.00 15.00 575.00 14.70 587.00 12.40 626.00 11.40 656.00 11.40 706.00 7.70 754.00 4.30 787.0060	571.00 28.80 578.00 15.70 571.00 15.70 571.00 15.40 675.00 11.90 675.00 11.90 675.00 11.90 675.00 10.10 675.00 10.10 67	553*00 16.90 580*00 15.00 603*00 12.10 628*00 12.10 655*00 11.60 655*00 9.70 603*00 4.00 738*00 4.00 775*00 4.20 838*00 .20	520.00 2A.90 528.00 25.90 549.00 17.00 570.00 15.30 600.00 11.70 636.00 A.20 667.00 5.00 6731.00 3.30 7711.00 7.33 7712.00 7.33	520.00 28.60 528.00 25.90 527.00 17.60 528.00 15.10 5175.00 15.30 611.00 11.30 640.00 5.30 740.00 3.77 740.00 2.30 642.00 .70 643.00 -1.50	520.00 26.60 528.00 25.60 576.00 15.40 616.00 15.40 676.00 7.00 676.00 7.00 632.0070	520.00 20.50 528.00 20.17.70 528.00 17.70 574.00 15.00 604.00 14.70 604.00 9.30 606.00 9.77 774.00 5.70 774.00 5.70 629.00 1.10 647.0000
DATE 720809 88VY 99 TIME 1200	DATE 721003 SRVY 90 TIME 1200	DATE 721205 8RVY 100 TIME 1200	DATE 730103 SHVV 101 TIME 1200	DATE 730206 SPVY 102 TIME 1200	04TE 730213 SHVY 103 TIME 1200	04TE 730316 SRVY 104 TIME 1200	DATE 730324 SRVY 105 TIME 1200
520.00 28,70 528.00 25.80 540.00 18.40 555.00 14.40 615.00 10.70 601.00 10.70 607.00 9.50 727.00 9.50 727.00 -2.60	521.00 28.50 528.00 25.70 518.00 18.40 572.00 18.40 572.00 10.40 604.00 10.50 702.00 8.30 719.00 8.30 752.00 6.10 784.00 8.30 824.00 1.60 849.00 =2.50	546.00 19.50 563.00 16.30 576.00 16.30 578.00 12.70 640.00 12.70 640.00 10.70 7.80 7.90.00 4.10 7.40.00 1.40 639.0050	\$40,00 26,70 \$40,00 25,60 \$504.00 19,00 \$561.00 16,10 \$02.00 15,50 \$621.00 12,00 \$632.00 7,80 \$648.00 7,80 \$648.00 2,00 \$738.00 2,00 \$738.00 1,30 \$620.00 =1,50	536.00 28.70 546.00 28.50 565.00 18.50 560.00 16.20 601.00 15.40 632.00 10.30 676.00 6.90 727.00 4.50 860.0080	\$39.00	599.00 15.70 604.00 14.70 641.00 6.90 677.00 7.50 709.00 7.50 746.00 4.60 618.00 1.80 859.00 .40 900.00 -1.00	595,00 18.70 576,00 17.20 563,00 16.20 592,00 16.90 603,00 15.40 615,00 13.60 600,00 17.40 605,00 17.40 605,00 17.70 717,00 -90
			PROF I	LE 2			
DATE 730403 6RV 100 TIME 1200	OATE 730612 SHYV 107 TI'*E 1270	DATE 730911 SUV 106 TIME 1200 555.00 18.60 599.00 18.60 671.00 11.60 673.00 7.10 673.00 7.10 773.00 7.00 774.20 18.20 774.20 841.0000	OATE 731219 SNVV 109 T14E 1200 565:00 16.20 615:00 14.00 645:00 11.00 645:00 10.00 73:00 04.00 665:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20 604:00 5.20				
DATE 621011	DATE 621029	DATE 621208	DATE ABOUT	Date 630123	DATE 630207	DATE 630221	DATE 630312
1 TIME 1200	TIME 1200	\$844 3 11HE 1500	5HVY # T1™E 1200	SRVV 5	5844 9 TIME 1500	TIME 1200	38 V W M
358.00 10.50 390.00 13.60 408.00 19.90 500.00 12.40 500.00 7.80 601.00 3.50 622.00 110	#08-00 19-00 554-00 6-554-00 6-56-00 6-56-00 8-80 66-00 8-80 625-00 8-80 658-00 8-80	389.00 10.80 415.00 19.80 937.00 19.70 502.00 19.70 500.00 7.00 500.00 7.00 500.00 2.40	0 + 0	0,00 9,80 0,00 4,90 72,00 4,90 170,00 8,10 210,00 18,10 210,00 18,10 234.00 18,50 244.00 18,50 247,00 19,70 350,00 19,70 3	#34.00 18.30 #98.00 11.90 510.00 9.40 502.00 7.00 577.00 6.50 636.00 =1.10	390.00 13.20 418.00 19.70 450.00 17.20 502.00 12.80 512.00 10.10 545.00 7.70 595.00 3.40 686.0000	416.00 20.20 433.00 19.10 437.00 19.80 452.00 17.20 500.00 13.00 573.00 7.80 573.00 7.80 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6

114E	630321 1201	DATE SHVV TIME	6300n9 in 1200	D#TF 80 V V TIME	630424	TIME	630509	DATE 5044 11ME	630617	TIME	630710 14 1200	DATE SRVY TIME	630813 15 1200	PATE PAVY TIME	630925 16 1200
417.00 442.00 453.00 497.00 513.00 547.00 565.00 638.00 652.00	19.80 17.20 12.80 9.80 8.40 8.40 4.20 2.30	438.0 449.00 510.00 554.00 620.00 646.00	12.8n 10.20 8.3n	420 - 00 440 - 00 501 - 00 569 - 00 590 - 00 668 - 00 778 - 00	19.50 12.90 7.70 7.40	399.00 442.00 452.00 502.00 512.00 552.00 592.00	19.10 17.30 12.70 10.10 8.20 8.20 50	503.00 510.00 530.00 593.00 681.00 716.00	19.10 12.10 17.10 8.70 7.60 2.10	501+00 511+00 530+00 595+00 624+00 675+00 704+00	7.60 5.70	411.00 431.00 470.00 476.00 571.00 571.00 645.00 674.00	18.90 18.60 16.10 15.20 14.30 6.60 6.50 6.70 4.30 1.60	478.00 530.00 598.00 628.00 649.00	7.80
							PROF								
8 R V Y	631030 17 1200	DATE SRVY TIME	631101 18 1800	9PVV	1500	DATE SKVV TIME	640108	DATE SRVY TIME	64n121 21 1200	<b>8</b> D V V	640312	8200	1500	9000	640713 24 1200
431 - 00 476 - 00 520 - 00 670 - 00 759 - 00	16.60	428.00 476.00 518.00 668.00 758.00	10.10	505.00 542.00 653.00 706.00 730.00	6.70	419.00 429.00 471.00 559.00 592.00 626.00	20.60	420.00 427.00 455.00 504.00 512.00 580.00 594.00 609.00	19.80 21:30 18.70 12:30 9.70 4:00 2:50	279.00 513.00 620.00 660.00 702.00	10.20 10.00 1.20 .90	419.00 437.00 478.00 505.00 541.00 583.00 640.00	19.90 16.00 11.40 7.10 7.90	819.00 468.00 524.00 591.00 619.00	19.90 17.30 9.70 8.90 8.80
PROFILE 3															
5847 TIME	1200 25	BRVY	641105 26 1200	8#V*	650218 27 1200	TIME	1200	SAVY	650527 29 1200	9RVY TIME	650816 30 1200	SRVY	660127 31 1200	TIME	660015 32 1200
421.00 432.00 476.00 515.00 547.00 621.00 666.00 712.00	19.90 20.20 16.20 10.40 9.80 3.50 .90	422:00 478:00 521:00 563:00 627:00 642:00	20.30 16.30 10.60 7.30 6.20 3.00	419+00 438+00 488+00 518+00 536+00 685+00	20+60 19+90 14+10 10+30 7+90 0+00 =+70	451 - 00 489 - 00 551 - 00 585 - 00 613 - 00	20.20 16.70 5.30 6.80 4.20	420.00 477.00 518.00 554.00 581.00 637.00 654.00 678.00	19.70 15.70 10.00 6.80 7.70 4.50 1.80	433.00 469.00 530.00 580.00 620.00 640.00	19.90 16.90 8.80 6.80 5.80 3.00	433.00 467.00 515.00 570.00	19.70 17.20 9.40 4.10	431.00 500.00 532.00 563.00	20.60 11:20 9:40 4:70
							PROFI								
SRVY TI=E	1200	3844 1146	64683n 34 1410	5RV¥	670113 35 1200	DATE SHVY TIME	670215 36 1200	114E	670501 37 1200	SRVY TIME	670726 38 1200	5044 114E	670921 39 1200	SRVY TIME	671107 40 1200
475.00 515.00 566.00 615.00	16.90 10:40 7:70 1:30	416.00 433.00 463.00 511.00 572.00 600.00 623.00 661.00 665.00	19.90 19.80 17.20 10.00 8.00 8.50 4.00 .40 *.60	442.00 510.00 537.00 587.00 635.00 651.00	20.90 11.10 8.40 7.60 1.70 .60	418.00 436.00 485.00 529.00 573.00 608.00	20.10 20.50 15.60 9.80 7.90 4.00	402.00 406.00 412.00 475.00 509.00 541.00 561.00	20.70 19.70 20.30 15.40 10.10 7.40 3.50	430.00 513.00 540.00 577.00 619.00 637.00 649.00	20.60 10.50 9.10 6.60 9.10 5.60 3.20	416.00 462.00 496.00 496.00 546.00 605.00	20:10 18:80 12:90 10:00 5:20 6:20 2:70	416.00 431.00 459.00 510.00 545.00 568.00 567.00 617.00 639.00	20.30 21.60 17.20 9.40 8.70 9.70 7.20 6.20 5.20
							PROFI								
8 R V Y T I M E	671206 41 1200	DATE SHVY TIME	68010% 42 1200	2 BAAA	680111 43 1200	LTHE	680118 ## 1200	5 R V V	080124 45 1200	TIME	680131 46 1200	SRVV	680207 47 1200	9avy TI≃E	68021# 48 1200
438+00 522+00 561+00 628+00 672+00 720+00	21.50 9.10 8.90 1.80 1.30	365 + 00 417 + 00 430 + 00 440 + 00 440 + 00 500 + 00 510 + 00 510 + 00 510 + 00 510 + 00	12.00 20.70 20.70 21.20 18.30 18.30 10.70 3.60 4.60	401-00 417-00 424-00 432-00 473-00 505-00 508-00 544-00 567-00	21 + 40 20 + 30 20 + 40 21 + 60 17 + 50 10 + 80 7 + 60 6 + 10 4 + 70 7 + 40	418-00 430-00 474-00 500-00 526-00 583-00 607-00 601-00 679-00	20.30 21.30 17.30 7.60 2.60 2.90 2.90 1.10	417.00 427.00 435.00 455.00 475.00 497.00 514.00 553.00 563.00 563.00	20.40 21.20 21.20 19.40 17.00 11.80 9.20 4.20 4.90 4.90 4.90	418.00 430.00 449.00 478.00 503.00 531.00 565.00 670.00		417.00 433.00 477.00 513.00 530.00 566.00 609.00 645.00 671.00	20.40 21.20 16.60 9.30 8.40 5.80 4.10 4.10 4.50	417.00 439.00 475.00 510.00 551.00 579.00 620.00	20 - 20 21 - 00 17 - 10 9 - 80 5 - 60 1 - 60 - 40

DATE 66 SRVY TIME 1	0220 49 1200	SAVV TIME	50 1200	88VY	680306 51 1200	TIME	52 1200	LIWE	680322 53 1200	SRVY TIME	680327 54 1200	8844 114F	681119 55 1200	SHVY TIME	690117 56 1200
441.00 2 471.00 1 502.00 1 539.00 559.00	0.10	395.00 417.00 450.00 479.00 547.00 547.00 567.00 604.00 620.00	21 : 00 20 : 20 20 : 00 10 : 90 10 : 90 10 : 20 5 : 20 2 : 80	396.00 412.00 412.00 470.00 496.00 563.00 588.00 598.00 613.00	21.10 20.20 21.00 17.70 12.60 6.20 7.00 4.70 2.60	396.00 417.00 436.00 473.00 495.00 560.00 609.00 624.00	21.10 17.30 12.60 8.90 5.40	417,00 439,00 476,00 504,00 520,00 50,00 50,00	20.30 20.70 17.10 11.60 9.70 6.10	401:00 418:00 433:00 478:00 508:00 572:00 603:00 618:00	20.00 21.00 16.40 10.70 6.00 5.30 2.60	401.00 418.00 425.00 429.00 451.00 478.00 498.00 50.00 638.00 654.00 675.00	20.40 21.50 19.30 17.70 11.20 9.60 5.10 2.70 00	306.00 396.00 418.00 436.00 478.00 538.00 553.00 653.00	22.00 20.40 21.80 17.80 11.80 7.10 3.40
							PROFI								
DATE 69 SRVY TIPE 1	37	5944 1146	690207 58 1200	SRVY	690213 59 1200	SHVY	1200	SPVY	690226	SRVY TIME	690310 62 1200	SRVY	690314 63 1200	89VY TIME	1200
437:00 2 475:00 1 485:00 1 526:00 562:00 687:00 759:00	21.90	418.00 437.00 474.00 485.00 \$26.00 560.00 605.00 645.00	22.00 17.00 11.40 7.10 6.80 3.10	436.00 474.00 484.00 575.00 732.00	20.40 20.90 22.00 18.10 11.80 7.60 6.20 2.80 .10	#18.00 #18.00 #30.00 #36.00 538.00 570.00 583.00	20.60 20.90 22.00 6.00 3.60 3.00		21.00 21.50 18.50 11.60 9.00 A.30 6.00 3.60 2.70	428.00 438.00 453.00 48.00 498.00 546.00 670.00	70.50 71.70 70.10 9.20 8.30 5.50 0.00	418.00 428.00 437.00 455.00 469.00 558.00 608.00 628.00	20.50 22.00 20.10 8.90 8.00 4.90 -1.90	393.00 409.00 416.00 426.00 437.00 453.00 460.00	22.10
DATE 69 BRVY TIME 1	200	3RVY 7IME	690918 66 1200	8844 1146	691125 67 1200	TIME	68 1200	3 R V Y	700115 69 1200	\$RVY TI≃E	700122 70 1200	SAVY	700129 71 1200	3RVY 3MIT	700211 72 1200
420.00 2 439.00 2 453.00 2 463.00 1 522.00 570.00	10.20	418:00 439:00 484:00 516:00 558:00 601:00 648:00 710:00	20.30 21.70 13.70 11.30 8.70 7.70 2.50 1.40	#18.00 #51.00 #55.00 #85.00 985.00 507.00 532.00 563.00 613.00 628.00	21.20 21.30 18.10 15.30 17.80 10.50 7.70 5.00 4.70 .90 -1.70	418.00 456.00 450.00 481.00 510.00 540.00 550.00 613.00 668.00	22.70 21.40 15.60 14.20 11.70 10.10 6.60 4.10	410.00 418.00 434.00 451.00 476.00 482.00 531.00 500.00 600.00	21,30	418.00 480.00 480.00 482.00 584.00 622.00 672.00 697.00	14.00 13.00 11.20 8.40 9.80 1.20	418.00 430.00 451.00 463.00 480.00 524.00 573.00 606.00 703.00	19.40	#18.00 #40.00 #51.00 #87.00 \$39.00 605.00 606.00	21:10 22:70 21:80 19:30 13:00 11:00 7:10 3:30 -:10
							PROF	ILE . 3							
DATE 70 SRVY TIME 1	73 1200	9444 71 ME	700225 74 1200	SRVY TIME	700305 75 1200	SHVY TIME	700312 76 1200	S P V Y	700318 77 1200	SRVY TIME	700507 78 1200	SRVY	700812 79 1200	SRVY TIME	700930 80 1200
452.00 1 460.00 1 464.00 1 535.00 1 576.00 648.00	21.10 22.50 21.60 19.60 13.20 11.20 9.20 3.60	418.00 433.00 451.00 451.00 491.00 550.00 605.00 646.00 709.00	22.4n 21.8n 19.60 12.8n 10.40 7.5n		22.20 13.30 11.10 9.50 3.40 1.00	415 = 0 0 439 = 0 0 474 = 0 0 526 = 0 0 587 = 0 0 637 = 0 0 659 = 0 0	19.50 13.30 11.50 11.70 8.50 5.50	418.00 434.00 450.00 450.00 463.00 463.00 571.00 611.00 646.00 691.00	11.40	442.00 461.00 490.00 533.00 563.00 651.00 701.00 751.00	22:30 19:50 12:80 11:30 7:10 7:40 6:00 1:50	418:00 436:00 454:00 454:00 531:00 568:00 588:00 628:00 668:00 718:00 742:00	21.20 22.80 21.10 13.40 11.50 A.30 A.50 10.20 4.00	713.00	19.50 13.50 11.40 9.80 10.60 9.00 4.80

SRVY	701201 81 1200	DATE SHVY TIME		SRVY	710106 83 1200	SHVY	1200	5 R V Y	710309 A5 1200	58VV	1200	584Y	710604 87 1200	DATE SRVY TIME	
418.00 450.00 509.00 509.00 580.00 624.00 658.00 689.00	21.20 21.80 19.90 14.30 10.40 5.90 7.00 2.30	439.00	22.50 19.10 13.60 8.50	418.00 471.00 471.00 481.00 546.00 579.00 650.00 675.00 675.00	22.70 19.60 17.70 14.10	418.00 468.00 495.00 568.00 568.00 723.00	22.70 19.50 15.50 10.60 8.30 7.20 6.80	418.00 420.00 430.00 449.00 465.00 530.00 574.00 681.00 712.00	21.50 23.00 22.50 19.50 14.60 16.30	418.000 440.000 450.000 503.00 503.00 532.00 652.00 654.00 736.00	21.40 22.50 20.80 19.70 14.50 11.50 9.30 7.10 4.20 4.20	41 P = 0 0 42 P = 0 9 44 3 = 0 0 45 4 = 0 0 49 4 = 0 0 575 = 0 0 573 = 0 0 573 = 0 0 573 = 0 0 733 = 0 0	21.20 21.40 23.00 21.40 19.60 10.70 8.20 7.50 4.80 1.70	442.00 470.00 494.00 545.00 576.00 659.00 652.00	19.00 15.30 13.00 8.80 8.00 3.00
							PROFI								
SRVY TIME	711008 89 1200	TIME	711201 90 1200	TIME	720103 91 1200	5RVY TIME	720131 92 1200	DATE SRVY TIME	72n2n5 93 12n0	TIME	720222	11 HE	720301 95 1200	5RVY T1™E	720328 96 1200
443.00 467.00 510.00 572.00 581.00 605.00 615.00 636.00 662.00	22.90 19.80 22.90 14.20 11.00 9.00 5.10 .20	418.00 442.00 464.00 464.00 509.00 547.00 554.00 589.00 639.00 694.00 709.00		443.00 463.00 469.00 511.00 547.00 577.00 605.00 678.00 720.00	23.20 21.80 19.00 13.50 13.50 9.10 7.60 2.10 10	447.00 460.00 463.00 556.00 552.00 560.00 580.00 630.00 630.00	21.00 16.20 13.00	460.00 465.00 477.00 520.00 520.00 614.00 657.00 682.00	20.90 20.20 16.70 17.50 7.50 2.20 = .10	428.00 460.00 485.00 510.00 539.00 573.00 601.00 641.00 691.00	20.50 22.40 20.90 15.50 10.70 7.20 5.50 4.20 2.70 1.60 1.00	419.00 450.00 450.00 464.00 505.00 534.00 524.00 572.00 744.00 762.00	20.40 20.90 20.90 15.00 11.60 8.10 6.70 6.40 3.10 .60 80	410.00 440.00 460.00 465.00 501.00 528.00 571.00 648.00 673.00 673.00 673.00 746.00 748.00 763.00	22 = 30 20 = 70 22 = 70 20 = 90 20 = 60 12 = 00 6 = 00 6 = 00 6 = 00 6 = 10 2 = 40 = 70 = = 40
							PRUF!								
SRVY TIME	720531 97 1200	SHVY	720809 98 1200	SRVY	721003 99 1200	TIME	721205 100 1200	5 p v v T † m f	730103 101 1200	TIME	730206 102 1200	SRVY	730213 103 1200	TIME	730316 104 1200
428.00 442.00 464.00 505.00 544.00 573.00 652.00 679.00 773.00 736.00	21.40 22.50 21.30 20.50 11.70 9.50 10.50 10.50 1.10 .30 -30	442.00 460.00 500.00 500.00 560.00 560.00 633.00 633.00 730.00	22.40 21.30 16.50 11.70 10.80 10.20 9.30 3.70 .40 -2.20	440.00 440.00 465.00 507.00 548.00 553.00 568.00 568.00 643.00 671.00		462.00 464.00 482.00 508.00 556.00 556.00 626.00 664.00 701.00 736.00 789.00	20.70	426.00 467.00 467.00 554.00 554.00 554.00 637.00 637.00 774.00	21.20 21.90 21.50 15.40 10.30 7.70 5.40 3.40 2.20 1.90 20	424.00 451.00 451.00 493.00 565.00 616.00 63.00 772.00	21.00 23.00 21.70 13.50 10.30 7.40 6.00 2.60 -20	425.00 442.00 492.00 525.00 623.00 643.00 643.00 745.00 745.00	21.10 21.70 13.00 10.50 6.90 3.90 -10 1.70 1.40 2.00	462.00 500.00 517.00 544.00 621.00 639.00 679.00 779.00 751.00 769.00 806.00	21.80 12.70 10.80 6.40 6.70 7.00 5.50 4.10 2.50 1.20 40
							PROFIL								
TIME	730324 105 1200 21.90 21.90 23.10 21.80 21.80 21.80 21.80 10.70 7.20 4.60 3.40 1.20	TIME	730u0% 10% 10% 10% 10% 20,90 23,20 21,70 10.20 11.70 5.70 4.70 8.80 -1.50	8PVY TIME 422.000 448.000 448.000 448.000 581.000 673.000 673.000 673.000 7705.000	730012 107 1230 20.90 23.20 21.70 21.30 10.80 10.80 10.00 7.90 8.50 6.90 8.50 6.90 3.50 -10	54VY TIME 400.00 426.00 440.00 440.00 440.00 4526.00 526.00 619.00 619.00 703.00 707.00 73.00 753.00	730911 107 1270 20.80 23.170 10.20 7.30 8.50 9.90 6.80 2.40 9.00 6.80 0.00 2.40 0.00 1.80	TIME	1200						

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SRVY TIME	621011	TIME	021029	DATE SRVY TIME	621208	TIME	630107	TIME	630123	SRVY	630207	DATE BRYY TIME	1500	5AVY TIME	1500
245.00 283.00 316.00 337.00 349.00 377.00 461.90 586.00 588.00	10 - 10 17 - 90 23 - 10 25 - 00 26 - 00 15 - 00 8 - 60 - 30	313.00 331.00 347.00 3476.00 405.00 405.00 454.00 504.00 535.00	22,50 25,30 26,10 15,30 15,30 9,00 9,00 3,80 -10	349.00 371.00 347.00 425.00 425.00 525.00	25.90 19.80 12.40 9.60 7.30 2.90	247.00 265.00 334.00 350.00 374.00 400.00 427.00 483.00 553.00 781.00	10,40 18,10 26,10 26,50 15,90 12,00 12,00 4,70 1,90 ,90	4.00 40.00 75.00 144.00 241.00 268.00 292.00 329.00 346.00 346.00 441.00 441.00 448.00 550.00 604.00	a . 60 5 . 30 7 . 20 8 . 90 11 . 40 11 . 70 27 . 40 27 . 40 27 . 60 12 . 60 13 . 60 11 . 10 - 40	347.00 381.00 441.00 591.00 551.00 594.00	26.50 14.00 6.30 .50 .50 .50	350.00 379.00 402.00 408.00 549.00 549.00	25.90 14.50 11.20 7.50 50	324.00 334.00 349.00 374.00 390.00 446.00 505.00 936.00	20.80 27.30 26.40 10.50 12.90 6.60 2.60
							PROFI	LE 4							
8 R V Y	1200	DATE SHVY TIME	630409 10 1200	8 R V Y	630424 11 1200	SHVY	630509	Date	630617	DATE SRVY TIME	630710 14 1200	DATE SRVY TIME	630813 15 1200	DATE SRVY TIME	630925 16 1200
442.00 501:00 536:00 565:00	8.90 4.50 2.20 0.00	339.00 350.00 375.00 402.00 493.00 534.00	20.80 20.30 10.50 11.90 5.20 1.20	330.00 348.00 373.00 409.00 454.00 500.00 573.00 618.00	27.20 27.20 17.60 11.50 6.10 7.20 1.60 20	372.00 394.00 452.00 463.00 502.00 510.00 542.00 577.00	17.60 12.70 8.20 7.60 8.10 5.90 1.80	347.00 371.00 424.00 461.00 492.00 544.00 600.00	27.30 17.10 12.60 10.10 A.60 A.70 2.80 .90 +4.20	369.00 391.00 420.00 473.00 495.00 511.00 536.00 55.00 594.00 608.00	17.20 12.90 9.80 7.90 8.00 6.00 7.20 5.50 .50	353.00 361.00 377.00 389.00 455.00 497.00 579.00 547.00	16.60 15.30 11.60 8.60 8.60 7.60 7.60	373.00 394.00 425.00 461.00 502.00 524.00 556.00	10.00 12.50 9.90 6.70 6.80 5.57 2.20
							PROFI								
DATE SRVY TIME	631030 17 1200	DATE SRVY TIME	631101 14 1800	BDUV	631115 19 1200	SKYY	640108 20 1200	Date Sevy Time	640121 21 1200	DATE SRVV TIME	640312 22 1200	SRVY	640511 23 1200	SHYY	640713 24 1200
370.00 390.00 436.00 483.00 532.00 622.00	18:40 13:80 10:10 9:60 7:20	370 - 00 390 - 00 438 - 00 484 - 00 534 - 00	18.30 13.90 10.10 9.60 7.00 30	391.00 473.00 513.00 560.00 595.00 601.00 633.00	14.10 7.20 7.30 8.40 4.90 3.20 1.10	36# 00 391 00 431 00 514 00 539 00 551 00	18.30 13.30 9.60 5.50 2.00 1.60	345.00 367.00 391.00 424.00 470.00 527.00	16.40 18.30 13.50 9.60 7.60 1.80	390.00 440.00 510.00 552.00 590.00 668.00 710.00	13.70 6.50 4.30 2.50 1.40 .20	391.00 401.00 442.00 540.00 590.00	13-00 12-50 8-40 5-70 2-60 -30	388.00 419.00 478.00 540.00 565.00	14.20 10.30 7.30 8.00 4.20
							PROFI								
DATE SRVY TIME	640910 25 1200	5447 1146	641105 26 1200	SRVY Tîme	650218 27 1200	32 VY	650412 28 1200	50VY	650527	DATE SRVY TIME		3414	660127 31 1200	TIME	660415 32 1200
365.00 403.00 442.00 536.00 542.00 626.00	17.20 12.00 8.60 10.70 4.30	389.00 428.00 524.00 574.00 606.00	10.20 4.40 5.80	383.00 #30.00 501.00 551.00 603.00 646.00	7.80	310.00 407.00 462.00 501.00 584.00 610.00	12.20 9.00 7.00 4.00 2.80	395.00 426.00 484.00 545.00 586.00 645.00 685.00	13.90 10.70 8.10 8.00 6.50 6.40 2.70 1.00	381.00 401.00 455.00 506.00 600.00 625.00 641.00	17.00 15.70 8.80 7.90 7.90 6.10 5.10 2.20	373:00 417:00 452:00 452:00 538:00 569:00	18.30 12.90 9.70 8.20 5.50 2.90	371.00 410.00 468.00 552.00 570.00	16.20 11.90 6.60 6.10 4.40
							PP0FI								
SHVY	660830 34 1200	DATE SRVY TIME	670113 35 1200	D&TF SPVY TIME	670215 36 1200	8 P U V	670501 37 1200	1 1 M F		SRVY	670921 39 1200	DATE SRVY TIME	671107 40 1200	8RVY	671206 41 1290
363.00 393.00 418.00 439.00 501.00 539.00 575.00 625.00		365.00 399.00 423.00 477.00 522.00 582.00	11.00	366.00 396.00 437.00 498.00 547.00	14.90 9.70 6.80	347.00 360.00 408.00 456.00 498.00 513.00	19.10	352.00 368.00 392.00 412.00 454.00 500.00 542.00 574.00	24.90 14.80 15.60 11.70 9.70 8.20 7.80 5.10 2.20	351.00 372.00 412.00 444.00 489.00 531.00 563.00	25.20 17.70 11.60 9.70 5.60 9.70 2.20	345.00 365.00 405.00 480.00 501.00 531.00 579.00 595.00	23.80 13.10 6.60 8.60 5.50 4.00 1.90	356.00 361.00 409.00 434.00 483.00 535.00 636.00	23.60 17.10 13.00 10.50 7.40 7.50 .20

DATE 680105 SRVY #2 TIME 1200	DATE 680111 SHVY 43 TIME 1200	DATE 680118 58VY 44 TIME 1200	DATE 680124 SHVY 45 TIME 1200	DaTF 680131 SRVV #6 TIME 1200	DATE 680207 SRVY 47 TIME 1200	DATE 687214 SRVY 48 TIME 1200	DATE 680220 SHVY 49 TIME 1200				
344.00 25.60 352.00 21.80 350.00 16.60 379.00 17.00 393.00 15.70 400.00 11.40 450.00 7.50 400.00 5.40 502.00 3.90 503.00 3.10 559.00 3.10 559.00 3.10 559.00 2.30 615.00 40	357.00 23.50 363.00 18.40 379.00 15.40 418.00 11.5.30 418.00 11.5.30 418.00 10.60 439.00 9.70 460.00 5.50 491.00 5.60 512.00 3.10 530.00 3.10 557.00 3.30 580.00 3.00 604.00 2.40	350.00 25.50 360.00 16.30 380.00 17.00 406.00 14.70 415.00 12.10 430.00 10.50 520.00 3.70 530.00 4.20 540.00 2.80 618.00 1.40	352.00 25.00 358.00 23.90 369.00 18.90 401.00 15.30 409.00 14.00 415.00 12.50 433.00 10.50 459.00 7.80 484.00 6.00 523.00 3.80 534.00 4.80 584.00 4.80 584.00 4.80 584.00 1.60 6055.00 7.70	352.00 24.00 350.00 14.90 400.00 15.20 410.00 17.20 453.00 8.10 493.00 5.30 511.00 4.70 530.00 6.30	350.00 25.60 368.00 18.70 360.00 17.00 405.00 14.70 414.70 12.40 461.00 7.50 503.00 6.60 575.00 2.60 627.00 2.70 642.00 1.60	374.00 25.40 370.00 18.70 380.00 17.10 403.00 10.80 403.00 10.80 470.00 7.40 506.00 5.10 561.00 .90	354,00 25,30 369,00 18,80 379,00 17,30 403,00 15,10 414,00 12,40 457,00 7,90 506,00 5,40 523,00 4,20 550,00 1,20				
			P90F1	LE 4							
DATE 680228	DATE 680306 SHVY 51 TIME 1800	DATE 680314 SRVY 52 TIME 1200	DATE 680322 SRVY 53 TIME 1200	Date 680327 Sovy 54 Time 1200	DATE 681119 SHVY 55 TIME 1200	DATE A90117 SRVY 56 TIME 1200	DATE 690129 8HVY 57 TIME 1200				
350.00 25.50 368.00 18.70 380.00 17.40 402.00 15.30 421.00 11.50 450.00 7.90 504.00 4.00 533.00 4.00 569.00 600	354.00 25.50 370.00 18.30 394.00 15.60 418.00 12.60 457.00 5.00 567.00 3.40 599.00 1.40	354.00 25.50 370.00 18.40 40.00 14.40 40.00 10.20 464.00 7.70 404.00 5.20 539.00 3.00 649.00 .00	353.00 25.50 367.00 18.60 394.00 15.70 413.00 12.50 430.00 10.10 456.00 8.10 504.00 4.90 555.00 2.80 612.00 1.30	354.00 25.30 370.00 19.40 408.00 13.90 413.00 12.20 491.00 5.60 529.00 4.20 566.00 3.70 399.00 1.10 438.00 9.70 700.00 0.00	369.00 18.80 360.00 18.30 402.00 15.70 425.00 11.70 455.00 3.40 559.00 1.50 395.00	356.00 27.10 374.00 17.40 385.00 18.30 428.00 9.30 459.00 9.30 459.00 8.00 558.00 8.00 518.00 9.20 601.00 91.70	365.00 18.20 410.00 14.00 420.00 9.20 455.00 9.20 465.00 9.20 465.00 9.20 535.00 5.90 577.00 1.90 505.00 9.20 623.00 93.70				
			PROFI								
04TE 690207 5RVY 58 TIME 1200	DATE 690713 SHVY 59 TIME 1200	DATE 690224 SQVY 60 TTMF 1200	DATE 690228 SMVY 61 TIME 1200	DATE 690310 5044 AP TIME 1200	041E 090314 38VY 03 TIME 1200	DATE 690321 SRVY 64 DIRE 1200	DATE 690618 SHVY 65 TIME 1200				
374.00 19:10 355.00 16.30 474.00 17.20 435.00 9.70 455.00 9.70 455.00 2.10 575.00 2.10 575.00 -2.10 575.00 -2.50 654.00 -3.50	375.00 18.60 385.00 18.60 411.00 18.60 435.00 8.10 485.00 8.10 485.00 8.80 485.00 8.80 531.00 8.80 531.00 8.80 531.00 8.80 531.00 8.80 531.00 8.80 531.00 8.80 531.00 8.80	373.00 19.00 385.00 18.30 010.00 18.30 023.00 12.30 0273.00 12.30 0273.00 10.50 035.00 9.00 085.00 7.30 085.00 4.70 503.00 2.00	575.00 18.90 585.00 18.30 415.00 4.10 428.00 4.50 435.00 9.10 463.00 7.50 610.00 4.30 510.00 4.30 520.00 4.30	\$85,00 18,20 410,00 10,70 427,00 10,70 435,00 5,20 478,00 5,20 478,00 2,80 485,00 1,80 485,00 3,70 555,00 5,30 584,00 5,30 584,00 3,70 555,00 5,30 584,00 1,70 570,00 -2,00 795,00 -2,00	385.00 17.90 412.00 14.40 435.00 8.90 485.00 2.40 535.00 5.40 623.00 1.70 623.00 1.70 738.00 -4.50 825.00 -6.80	264.00 11.50 205.05 18.40 512.00 22.00 339.00 26.00 357.00 25.20 373.00 17.20 407.00 14.80 424.00 10.40 435.00 8.80 535.00 4.00 535.00 4.0	356.00 24.40 356.00 20.40 364.00 16.20 409.00 15.30 408.00 7.30 5515.00 6.50 561.00 7.70 611.00 6.80 728.00 -1.60				
			PROFI								
OATE 690918 SRVY 66 TIME 1200	CATE 691125 SRVY 67 TIME 1200	0ATE 691220 SPVY 68 TIME 1200	DATE 700115 SHVY 69 TIME 1200	Date 700122 SRVV 70 TIME 1200	OATE 700129 SRVY 71 TIME 1200	34TE 700211 SRVY 72 TIME 1200	DATE 700216 SRVY 73 TIME 1200				
365.00 16.20 408.00 16.00 420.00 11.20 455.00 9.30 445.00 6.60 445.00 6.60 550.00 7.80 610.00 5.90 650.00 1.30 673.00 0.00	385,00 1F.20 412-00 15-00 435-00 8.90 457-00 9.60 467-00 9.60 536-00 9.60 582-00 9.60 682-00 1.10 682-00 -1.40 702-00 -3.60	3A5,00 18,20 415,40 15,00 415,40 9,70 445,40 9,70 45,40 9,30 500,00 9,30 500,00 0,00 545,40 12,90 635,00 1,60 685,00 -2,90	374,00 18,90 385,80 18,20 412-00 15,10 431-00 9,90 435,80 7,20 485,90 7,80 535,80 8,80 545,90 4,80 655,90 4,80 655,90 -5,70 740,00 -5,00	374.00 18.50 385.00 18.30 0.00 0.50 0.00 18.30 0.00 0.50 0.00 0.50 0.50 0.50 0.50 0	374,00 18.50 385,00 18.20 005,00 16.40 432,00 9.70 435,00 9.70 435,00 8.70 531,00 8.70 532,00 7.80 552,00 4.20 562,00 -57 635,00 -57 635,00 -2.20 715,00 -4.00	374,00 18.60 385,00 18.30 005,00 18.30 029,00 11.00 035,00 10.20 035,00 0.20 035,00 4.20 535,00 4.20 535,00 1.00 035,00 1.00 035,00 -10 035,00 -20 035,00 -20 035	305,00   8.00   414,00   14.40   14.50   14.40   14.50   14.50   14.50   15.50				

11™F	700225 74 1200	DATE SHVY TIME	700305 75 1200	38V4	700312 76 1200	4 T I MF	700318 77 1200	1 I HE		TIME	700F12 79 1200	SOVY TIPE		DATE SRVY TIME	701201 81 1200
385.00 412.00 427.00 435.00 455.00 535.00 535.00 685.00 725.00	18:00 14:00 10:90 10:50 8:30 6:50 2:20 -90 -050	374.00 414.00 426.00 435.00 485.00 535.00 535.00 635.00	18.90 18.10 14.40 11.30 0.50 4.80 2.90 1.30 .20	3#5.00 415.00 475.00 475.00 450.00 455.00 585.00 635.00 645.00 713.00	18.00 14.20 11.10 10.40 7.60 6.80 6.80 1.50 -70 -1.10 -2.10	385.00 413.00 427.00 435.00 535.00 612.00 635.00 65.00 720.00 750.00	18.10 15.30 11.20 10.49 6.80 6.10 3.30 3.50 3.80 3.80 3.80	385.00 419.00 428.00 435.00 585.00 605.00 650.00 650.00 670.00	18.30 16.00 13.70 10.90 10.90 5.90 5.90 5.40 1.90 1.70 1.70 1.70	365.00 434.00 437.00 486.00 486.00 581.00 606.00 612.00 633.00 683.00	18.20 10.80 9.50 5.00 7.50 3.40 2.10 1.90	427.00 435.00 435.00 456.00 535.00 535.00 617.00 620.00 635.00 645.00	10.50 10.40 6.60 7.30 7.80 7.80 6.10 6.20 9.20 4.20 4.20 2.40	420.00 435.00 435.00 518.00 535.00 535.00 635.00 635.00	13.30 11.20 10.50 6.20 7.00 7.60 9.10 4.40 .20 -1.90
							PROFI	LE 4							
DATE SRVY TIME	701216 #2 1200	DATE Shvy TIME	710106 83 1200	DATE SRVY TIME	710212 84 1200	DATE SHVY TIME	710309 85 1200	DATE SRVY TIME	710408 #6 1200	DATE SRVY TIME	710604 87 1200	DATE SRVY TIME	710811 #8 1200	9RVV TI™E	711008 89 1200
415.00 425.00 435.00 465.00 555.00 555.00 565.00 665.00 665.00	14.60 11.60 8.30 6.80 5.00 4.70 4.90 3.70 1.40	#11:00 #25:00 #35:00 #6#:00 #85:00 \$35:00 \$15:00 \$65:00	19.20 11.60 10.80 7.90 7.10 6.20 2.30 .30	414.00 424.00 435.00 485.00 585.00 503.00 635.00 677.00 725.00 761.00	14.80 11.70 10.80 7.50 5.10 3.90 3.10 1.50 40 80	408.00 425.00 435.00 485.00 535.00 623.00 654.00 684.00	15.50 10.70 6.40 3.80 10 -1.50 -2.10	412.00 421.00 435.00 485.00 535.00 585.00 685.00	15.10 9.60 10.20 5.50 2.50 -30 -90 -1.60 -2.40	385.00 408.00 435.00 464.00 464.00 557.00 557.00 602.00 641.00 717.00 758.00	18.10 15.60 10.40 7.30 5.30 0.00 0.00 0.00 0.00 0.00 0.00	385.00 406.00 435.00 485.00 535.00 606.00 640.00 684.00	17.30 15.60 10.70 7.20 6.40 4.80 3.60 1.00	385,00 435,00 445,00 535,00 546,00 545,00 608,00 608,00 608,00	18.30 16.70 9.10 8.80 8.80 7.30 6.50 5.70 -2.90
							PROFI								
TIME	711201 90 1200	DATE SHVY TIME	720103 91 1200	SRVY	720131 92 1200	DATE SHVY TIME	720205	TIME	720222	DATE SHVY TIME	720301 95 1200	DATE SHVV TIME	720328 96 1200	8RVY	720531 97 1200
435.00 448.00 463.00 506.00 532.00 632.00 682.00 716.00	10.70 8.40 8.80 8.80 6.70 4.00 1.30	424.00 438.00 468.00 512.00 536.00 587.00 684.00 735.60	10.60 8.40 8.70 8.50 6.10 2.40 -40	471.00	13.00	435.00 485.00 535.00 585.00 635.00 685.00	10.70 7.00 6.40 2.90 .90	385.00 400.00 415.00 435.00 441.00 465.00 485.00 535.00 635.00	17.20 14.70 9.20 6.20 6.00 1.70 1.90 0.00	385.00 427.00 437.00 457.00 457.00 485.00 531.00 553.00 553.00 613.00 635.00 662.00 685.00	18.20 10.80 9.80 6.90 5.30 3.50 2.70 2.00 .80 1.10 .60	385.00 409.00 435.00 449.00 455.00 555.00 569.00 585.00 575.00 730.00 748.00 765.00	18.30 11.00 9.80 7.40 0.70 4.00 4.20 4.20 4.80 1.40 40	385.00 410.00 433.00 475.00 530.00 597.00 650.00 710.00 730.00 743.00	18.40 16.50 10.80 7.20 7.50 5.00 5.30 2.30 1.00 .30
							PROF								
DATE SRVY TIME		5 # V Y		99VY	721205 100 1200	DATE SHVY TIME	730103 101 1200	SPVY	730206 102 1200	5AVY TI™E	730213 103 1200	SAVY	730316 104 1200	SRVY	730324 105 1200
395.00 410.00 450.00 500.00 570.00 579.00 658.00 712.00	16:10 9:90 7:60 8:20 8:00 7:00 8:20	385.00 408.00 418.00 430.00 516.00 580.00 623.00 6713.00	10.8n 14.70 11.00 7.80 8.50 7.70 9.50 4.60	423:00 424:00 434:00 485:00 547:00 585:00 635:00	11+00 10=50 9=10 9=70 9=50 8=50 5=30 3+40 1+30 +10	417.00 429.00 439.00 540.00 577.00 591.00 631.00 669.00 739.00	11.40 10.70 9.20 5.20 3.00 4.20 5.10	425.00 435.00 490.00 540.00 590.00 638.00 678.00	10.60 9.30 7.60 7.30	413-00 425-00 435-00 464-00 508-00 560-00 617-00 662-00 717-00	0.00	412.00 427.00 435.00 472.00 496.00 517.00 570.00 570.00 693.00 713.00	11.40 10.90 9.70 7.70 3.30 =.80 4.60 =1.70	402.00 415.00 475.00 475.00 525.00 545.00	10.10 11.00 11.00 8.80 7.70 3.50 0.00

\$9 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10.00 11.30 11.00 9.10 6.20 4.30 2.90 2.80 1.40	8HVY TIME	13.70 11.50 11.00 6.10 6.20 2.80	\$RVY TIME 412.00 427.00 455.00 464.00 510.00 570.00 605.00 613.00	11.00 9.70 6.80 9.00 7.30 6.90 4.40 1.60	SHVY TIME #13.00 #25.00 #35.00 #85.00 513.00 535.00 610.00 645.00 645.00	16.30 12.40 11.40 9.70 6.80 7.00 4.90 2.80 1.50	LE S							
SRVY TIME	621011 1 1200	SHVY TIME	021029	5 P V Y T I H E	621208	SRVY	630107	SRVY	630123	TIME	630207 8 1200	5974 714E	630221	BRVY TI"E	630312
273.00 376.00 329.00 344.00 344.00 520.00 520.00 585.00	25.40 25.40 17.80 10.80 7.70 8.30 2.40	206-00 259-00 303-00 324-00 402-00 488-00 511-00 588-00	26.4n 12.10 9.8n 8.2n 7.0n 3.30	331.00	24.00 18.70 12.60	167*00 195*00 233*00 307*00 334*00 379*00	7.90 8.80 12.40 26.20 25.70 17.10 12.40 10.30	150.00	7,90 8,70 12,20 26,00 25,60 22,70 11,40 7,80 4,90	33A.00 406.00 447.00	8.00 6.40 5.60	332.00	26.10 23.50 23.50 13.10 10.30 8.20 4.90	306.00 331.00 339.00 406.00 524.00 623.00	25.00
							PROFI								
8RVV TIME	630321 R 1200	SHVY	10 1200	SRVY TIME	11 1200	SPV4 TIME	90509 12 1200	SRVV	630617 13 1200	8RVY TIME	630710 14 1200	SRVY	630813 19 1200	SRVY TIME	630925 16 1200
330.00 338.00 361.00 422.00 462.00 516.00 560.00 597.00	26.50 25.60 19.60 9.50 7.40 3.00 .20	306.00 326.00 394.00 481.00 529.00 582.00 617.00	5.00 2.80	410.00 454.00 454.00 516.00 574.00 628.00	11.00 8.50 6.40 7.20 2.30	392.00	13.10	305.00 335.00 360.00 420.00 513.00 548.00 591.00 627.00	9,80	491-00	8.00 8.70 3.30	460.00 492.00 505.00	8.20 8.20 8.40 6.30	327.00 364.00 395.00 424.00 490.00 510.00 546.00 590.00	26 = 30 17 = 90 13 = 10 10 = 10 8 = 10 8 = 10 7 = 30 2 = 10
							PROF1								
8RVV Tî⊨E	631030 17 1200	9RVY TIME	631101 18 1200	8RVY TIME	031115 19 1200	SRVY TIME	640108	ERVY	640121	SRVY TIME	1200	SRVY TIME	640511 23 1200	SRVY	640713 24 1200
405.00 446.00 459.00 505.00 545.00	9.20 5.80 6.10	404.00 444.00 491.00 543.00	10.80 9.10 9.20 6.20	407.00 439.00 459.00 499.00	8 + 40 7 + 30 6 + 50 9 + 30	351.00	11-20	304.00 352.00 405.00 478.00 515.00 523.00	26.20 27.50 19.00 10.70 A.90 4.00 2.80 2.60	347.00	27.40 17.10 16.20 11.10 7.70 5.00 2.00	373.00 404.00 495.00	10.60	315:00 372:00 399:00 451:00 510:00 548:00	26:90 15:00 10:90 6:30 7:90 5:50

SRVY	640910 25 1200	9844 TIME	1200	SPVY TIME	650218 27 1200	7 V H R 3 M L T	650412 28 1200	SPVV	650527 29 1200	3RVY TIME	650816 30 1200	39VV	660127 31 1200	SRVY TIME	660415 32 1200
318.00 378.00 411.00 452.00 498.00 537.00 592.00 648.00	10.50 10.50 10.50 11.10 6.10	319.00 358.00 409.00 500.00 515.00 544.00	18.70 12.20 6.80 8.40 7.10	370 - 00 446 - 00 479 - 00	2.00	447.00	7.90 6.50 7.80 4.50	319.00 380.00 450.00 501.00 550.00 579.00 612.00 636.00	05.8 08.8 00.6 00.6 00.6	325.00 375.00 400.00 457.00 501.00 535.00 586.00	11:70 8:20 9:10 6:80	401.00 451.00 491.00	16.80 12.00 7.70	329.00 362.00 407.00 458.00 498.00 521.00	19.10
							PROF								
BRVY TIME	660620 33 1200	5H V Y	660830 34 1200	3 R V Y	670113 55 1200	SHVY TIME	670715 3A 1200	SEVY IIME	670501 37 1200	SRVY TIME	670726 38 1200	99 V V	670921	SRVY	671107 40 1200
323.00 345.00 413.00 454.00 517.00 567.00	22.00 10.80 8.40	326.00 362.00 366.00 438.00 477.00 519.00 617.00	14-10 8-50 8-70 10-00 7-80	380-00 430-00 446-00 505-00 556-00	17.70 12.10 10.70 7.20 6.20 2.20	365.00 403.00 454.00	17.10 11.60 9.30 6.20	408.00 439.00 468.00 504.00	13.30 11.40 9.10 7.30 4.60		7:40 7:70 9:10	407.00 498.00 509.00 546.00	16.60 13.80 8.10 9.30 9.30 6.60	364.00 387.00 412.00 487.00 535.00	14.40 13.20 8.30 9.80 9.80 7.10
3 P V Y	671206 41 1200	9HVY TIME	650105 42 1200	SPVV	680111 43 1200	88VY	PROF1	Date Sayy Time	68n124 45 1200	TIME	680131 ue 1200	TIME	680207 47 1200	DATE SRVY TIME	
324.00 399.00 480.00 575.00 630.00 700.00	30 + 10 13 + 90 8 + 20 9 + 00 4 + 50 1 + 90	264.00 289.00 305.00 328.00 340.00 391.90 402.00 456.00 596.00 596.00 660.00 710.00	23.00 26.50 26.10 23.50 20.30	410-00	23.50 19.60 14.40 12.50 10.30 8.80 9.50 7.60	321:00 360:20 386:00 415:00 402:00 511:00 511:00 654:00 670:00	20.80 10.70 11.60 8.70 7.10 4.90 2.80 1.70	322.00 361.00 365.00 411.00 454.00 4587.00 614.00 646.00 685.00 685.00	20.50 16.80 12.30 9.40 2.00 4.10 4.60 3.00 2.10	324.00 339.00 362.00 388.00 479.00 525.00 561.00 595.00 677.00	23.70 20.80 16.70 12.70 8.50 6.80 6.80	360.00	22.80 20.60 17.40 11.80 10.20 6.50 7.60	324,00 339,00 345,00 345,00 409,00 409,00 464,00 534,00 617,00 631,00	23.60 22.90 20.30 12.80 9.30 5.60 4.40
							PROFI								
50¥¥ 3417	1200	BRVY TI"E	680228 50 1200	FRVY	680306 51 1200	TIME	52 1200	SRVY	680322 53 1200	SKVV	680327 54 1200	TIME	681119 55 1200	DATE SRVY TIME	1200
328,00 339.00 368.00 409.00 467.00 535.00 574.00 595.00	23.60 19.50 12.80 9.40 6.20	32A.00 339.00 350.00 40A.00 441.00 500.00 542.00 646.00	22.00	327.00 3504.00 364.00 409.00 409.00 523.00 581.00 600.00 618.00	26.30 22.00 20.20 13.00 5.70 6.70 4.20 5.20 2.70	325.00 364.00 404.00 454.00 513.00 606.00	19.90 12.90 9.50 7.10 2.90	320.00 340.00 340.00 371.00 390.00 422.00 527.00 638.00	23.50 22.50 19.50	327.00 339.00 350.00 369.00 391.00 425.00 486.00 544.00 603.00 603.00 707.00 753.00	23.40 22.30 20.20 15.60 11.30 8.00 5.30 3.50 .50	340.00 366.00 387.00	23.90 20.90 17.40 12.00 10.50 6.30 5.90 4.10 2.60 1.10	311.00 340.00 360.00 431.00 450.00 601.00 750.00	

7 I ™E	90129 57 1200	DATE' SHYY TIME	690207 58 1200	DATE SPVY TIMF	690213 59 1200	DATE SHVY TIME	1200	DATE SPVY TIME	690228	DATE SRVY TIME	690310	DATE SRVY TIPF	690314 63 1200	DATE SRVY TIME	690321
393.00 #10.00 #67.00 522.00 554.00 518.00 618.00 632.00	21.20 17.50 12.70 9.40 8.40 3.80 1.70 2.70 2.70 2.70 -1.40	340.00 364.00 415.00 494.00 494.00 529.00	24.10 21.00 17.60 12.70 11.00 9.00 8.80	\$40.00 \$A0.00 \$81.00 419.00 457.00 513.00 560.00 768.00 860.00	24.00 21.60 17.80 12.50 10.10 8.76 8.60 4.50 4.50	340.00 359.00 362.00 419.00 459.00 459.00 550.00 550.00	24.00 21.80 17.90 10.80 10.80 7.70 5.10 3.40 2.70	340.00 364.00 390.00 433.00 542.00 588.00 638.00	21.90 21.30 17.40 11.20 10.40 3.80 1.50	350 * 0 U 370 * 0 0 378 * 0 0 402 * 0 0 438 * 0 0 474 * 0 0 527 * 0 0 510 * 0 0 550 * 0 0 658 * 0 0 635 * 0 0 635 * 0 0 635 * 0 0	21.70 18.40 17.70 12.70 10.40 10.30 9.00 2.70 50 -1.50 -3.10 -6.30	325 + 00 346 + 00 357 + 00 357 + 00 402 + 00 434 + 00 454 + 00 550 + 00 550 + 00 550 + 00 511 + 00 611 + 00 896 + 00	20.40 22.20 20.20 17.70 11.10 10.30 10.50 7.90 .60 1.10 1.10 1.10 1.10 .50	201.00 300.00 325.00 340.00 391.00 429.00 485.00 536.00 590.00	13.40 26.50 26.40 24.00 20.40 17.20 11.50 9.80 4.20 4.20
							B-B-0								
DATE 6	90618 65 1200	DATE SRVY TIME	1500	DATF SRVY TIME	691125 67 1200	DATE SHVY TIME	691720 68 1200	DATF SRVY TIME	700115 69 1200	DATE SRVY TIME	700122 70 1200	DATE SRVV TIME	700129 71 1200	DATE SRVY TIME	700211 72 1200
340.00 370.00 396.00 413.00	29,90 26.00 21.60 10.90 10.20 9.90 8.70 3.20 -2.30	\$2%.00 \$40.00 \$70.00 \$98.00 452.00 452.00 603.00 603.00 603.00	29.60 27.3n 21.4n 16.00 10.40 10.40 10.60 9.60 3.00	376 x 0 n 34 n x 0 n 34 n x 0 n 3 x 2 x 0 n 3 x 2 x 0 n 3 x 2 x 0 n 5 14 x 0 n 5 14 x 0 n 5 x 4 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x 2 x 0 n 5 x	29.20 27.20 23.00 16.20 11.10 10.10 10.50 10.70 5.90 6.30 1.90 -2.50	328.00 343.00 365.00 412.00 438.00 453.00 528.00 543.00 743.00 798.00	30.30 26.50 16.90 14.60 12.90 10.60 10.70 3.50	331.00 340.00 371.00 403.00 435.00 450.00 535.00 635.00 700.00 761.00 686.00	30.10 26.70 19.00 14.70 13.30 10.80 10.80 10.40 5.70 1.70	326.00 408.00 423.00 4476.00 508.00 501.00 641.00 692.00 745.00 788.00 822.00	30.40 15.20 12.70 11.00 9.00 10.30 10.70 6.70 5.30 2.40	327.00 333.00 367.00 422.00 445.00 541.00 541.00 541.00 710.00 717.00 615.00 669.00	37,40 29,00 19,40 15,20 11,00 9,70 10,00 10,40 7,60 6,00 3,30 -1,90	325.00 364.00 395.00 420.00 442.00 482.00 550.00 627.00 654.00 712.00 838.00	30 = 50 19 = 70 14 = 80 13 = 30 11 = 20 9 = 80 11 = 00 9 = 30 2 = 90 0 = 00 = 3 = 20
							Pa0FI	LE 5							
04TE 7 3RV7 TIME	73	41 m E	700225 74 1200	3044 T145	700305 75 1200	3 + 4 4	700312 7A 1200	SRVY	700318 77 1200	SPVY	700507 78 1200	9RVY TIME	700812 79 1200	SRVY TIME	700930 80 1200
396.00 431.00 445.00 500.00 549.00 602.00 672.00 758.00	31 = 00 15 = 40 13 = 10 11 = 30 10 = 10 10 = 90 11 = 10 4 = 70 1 = 90 = 1 = 40	3A3.00 431:00 445:00 500:00 54A:00 66A:00 67:00 68:00 776:00 830:00	10.50 13.30 11.30 10.50 10.50 10.90 4.60 2.70 70	333.00 347.00 431.00 431.00 498.00 498.00 648.00 648.00 648.00 648.00 648.00 648.00 648.00 648.00 648.00	31.00 19.40 16.00 13.26 11.20 9.60 10.50 7.70 7.70 1.70 -60 -1.10	335.00 368.00 426.00 445.00 445.00 545.00 593.00 668.00 760.00 773.00	31.10 19.20 15.90 13.30 11.40 9.80 10.40 10.90 9.20 5.50 3.80 .30 90	320.00 371.00 427.00 445.00 4492.00 536.00 537.00 683.00 730.00 730.00 730.00	30.50 18.60 13.40 11.30 9.60 10.20 10.20 10.80 5.70 3.70 0.00 -3.10	334.00 367.00 445.00 490.00 538.00 595.00 669.00 693.00 735.00 785.00	31-00 19-10 11-30 9-70 10-10 11-40 7-70 5-00 4-90 1-50 =1-60	335.00 373.00 435.00 448.00 501.00 552.00 599.00 638.00 640.00 661.00 766.00	27.50 17.00 11.00 9.70 8.60 9.00 7.70 6.60 3.50 -2.60	326.00 340.00 367.00 430.00 442.00 475.00 502.00 507.00 507.00 667.00 667.00	30.40 26.40 19.40 15.20 15.30 13.10 11.80 12.10 13.00 10.80 6.00 3.30
DATE 7	01201	DATE	701218	DATE	710106	DATE	710212	DATE	710309	DATE	710408	DATE	710604	DATE	710811
SHVY TIME	1200	8444 7145	1200	3 P V Y	A3 1200	SHVY TIME	1200	SAVY	A5 1200	TIME	1200	SRVY TIMF	1200	TIME	1200
340.00 363.00 409.00 439.00 439.00 529.00 531.00 632.00 632.00 601.00 650.00	30.60 25.90 113.90 113.90 11.50 9.90 11.50 9.50 9.50 9.50 9.50	318.00 340.00 360.00 360.00 391.00 439.00 470.00 523.00 576.00 608.00 653.00 736.00	29.5n 27.5n 22.6n 17.6n 18.7n 10.5n 10.5n 7.10 42n 1.2n	3/5.00 3/0.00 3/3.00 3/4.00 4/4.00 4/5.00 5/7.00 5/7.00 6/4.00 6/4.00 7/1.00	30 + 70 26 + 20 19 + 70 14 + 30 17 + 80 10 + 10 10 + 50 10 + 10 10 + 50 20 + 80 4 + 30 4 + 30 5 + 30 6 + 30	327.00 355.00 347.00 347.00 347.00 497.00 497.00 613.00 674.00 731.00 634.00 654.00	30,80 29,40 27,00 19,70 10,10 10,60 10,60 6,00 1,70 -,10 -1,80	330.00 335.00 343.00 343.00 416.00 449.00 493.00 549.00 504.00 759.00 759.00 759.00 759.00	30,70 29,30 24,60 19,70 11,40 11,20 10,20 10,20 10,50 6,30 ,60 ,80 ,80	328.00 335.00 344.00 394.00 414.00 446.00 483.00 523.00 657.00 729.00 801.00	30,60 29,40 26,40 71,50 13,90 14,80 10,50 10,60 7,50 5,70 2,90 830 830 830 830 830 830 830 830 830 83	320.00 335.00 344.00 372.00 391.00 493.00 5570.00 5570.00 569.00 702.00 702.00 804.00	30,70 29,30 26,00 19,10 15,80 14,50 11,80 10,40 10,40 10,10 7,90 8,90 7,30 1,80 -1,30 -2,50	328.00 340.00 347.00 413.00 452.00 499.00 550.00 603.00 603.00 721.00 721.00 773.00	29,00 26,90 20,50 11,40 10,40 10,40 11,00 8,80 1,20 -,70

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DATE 711008 SRVY 89 TIPE 1200	DATE 711201 SEVY 90 TI-E 1200	DATE 720103 SPVY 91 TIME 1200	CATE 720131 SKVY 92 TIME 1200	Pate 720205 Spvv 93 TI-E 1200	DATE 720222 SRVY 94 TIME 1200	04TE 720301 58VV 95 TIME 1200	DATE 720328 5844 96 71 ME 1200
327.00 29.40 340.00 27.40 365.00 27.40 413.00 114.10 555.00 116.10 558.00 116.10 658.00 116.10 658.00 116.10 658.00 176.10 675.00 10.60 602.00 9.30 602.00 7.10 732.00 3.20 776.00 -1.60	327.00 29.70 300.00 27.10 300.00 27.10 370.00 20.50 413.00 10.50 405.00 10.10 605.00 10.10 605.00 10.10 605.00 5.20 710.00 5.20 710.00 2.20 710.00 8.80 880.00 #2.40	371.cc 20.c0 u13.oc 15.00 u59.cc 10.50 512.oc 10.50 50.cc 10.40 671.cc 7.90 720.cc 6.60 720.cc 6.60	344400 20,57500 19,70 444400 13,00 444400 15,00 55040 10,55 53400 10,55 63,00 6,90 791,00 =2,30	417,00 15,30 444,00 12,90 479,00 10,80 533,00 10,80 529,00 10,80 573,00 10,80 734,00 2,30 747,00 2,30 767,00 55	344.00 20.00	\$24.00 20.50 \$44.00 26.50 \$55.00 21.90 \$74.00 17.40 \$42.00 18.20 \$42.00 18.20 \$4	328.00 29.80 344.00 25.60 376.00 20.30 416.00 15.00 444.00 12.00 510.00 9.00 639.00 4.70 729.00 6.70 747.00 6.00 747.00 6.00 750.00 9.00 750.00 9.00 750.00 9.00 750.00 9.00 750.00 9.00 750.00 9.00
			PROFI				
DATE 720531 SRVY 97 TIME 1200	547E 720809 5494 98 71°E 1200	DATE 721003 SRVV 99 YIVE 1200	04TE 721205 SHVV 100 TIME 1200	Fate 730103 Sovv 101 1756 1200	DATE 730206 SRYY 102 TIME 1200	DATE 730213 58VY 103 TIME 1200	DATE 730316 SRVY 104 TIME 1200
329.00 29.80 344.00 20.80 364.00 15.80 410.00 15.80 470.00 11.20 514.00 8.80 508.00 91.0 709.00 91.0 709.00 3.50 731.00 -10	327.00 2%.20 36.00 2%.20 372.00 2%.10 372.00 2%.20 410.00 155.10 466.00 155.10 55.00 2%.20 774.00 0.00 774.00 0.00 774.00 0.00	331.00 29.00 304.00 20.00 397.00 17.20 478.00 11.70 478.00 11.70 507.00 7.20 507.00 2.00 507.00 2.00 707.00 2.00	331.00 26.40 304.00 26.10 359.400 21.00 359.400 22.30 394.00 17.00 410.40 15.30 459.70 13.40 404.00 11.00 534.00 6.60 634.00 6.50 634.00 6.50 673.00 11.00 673.00 11.00 673.00 11.00	320,00 20,20 34-30 26,20 34-30 26,20 41-30	334,00 28,50 344,00 26,10 410,00 14,	332.00 24.10 344.00 26.00 344.00 26.00 45.00 15.40 45.00 15.40 473.00 13.40 473.00	328.00 29.30 364.00 28.00 359.00 22.00 367.00 18.00 410.00 15.50 450.00 13.50 406.00 11.20 479.00 10.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00 505.00 9.00
			PROFI				
DATE 730324 84V 105 71PE 1200 344.00 22.40 354.00 15.40 652.00 15.40 652.00 15.40 653.00 4.00 654.00 4.00 655.00 4.00 655.00 4.00 655.00 4.00 655.00 4.00 655.00 4.00	0ATE 730403 S-VV 1006 T1-K 1240 3-2400 3-2500 3-2400 3-2400 3-2400 3-2500 3-2400 3-2400 3-2400 3-2500 3-2400 3-2500 3-240	DATE 750512 SOUN 107 T195 1200	74TE 73n011 SHUY 10M T1'Y 12N0 71'Y 12N0 72'N1 12N0 72'	DaTE 73;719 Snvv 1ne 119F 129n 520,00 22,10 344,00 22,10 344,00 22,10 447,00 11,00 471,00 11,00 471,00 11,00 670,00 11,50 687,00 4,00 687,00 4,00 687,00 11,50 687,00 11,50 687,00 17,40 774,00 -770			
			PR()F]				
DATE 621011 SRVY I TIME 1200	DATE 621029 SRVY 2 TIME 1200	04TF 621208 8DVY II TIME 1200	DATE 630107 SRVY U TIME 1200	Date 630123 SRVV 5 TIME 1200	04TE 630207 SRVY B TIME 1200	DATE 630221 58VY 7 7IME 1200	DATE 630312 SRVY A TIME 1200
#7,00 10,40 150.00 15.20 210.00 12.70 201.00 22.50 275.00 22.70 300.00 20.40 371.00 7.70 471.90 1.70 519.07 1.40	18A,00 19,60 23A-00 22.20 277.00 12.70 321.00 12.70 374.00 8.90 430.00 9.80 473.00 9.80 539.00 9.40	195.00 19.50 232.00 20.60 245.00 22.50 255.00 23.10 274.00 22.90 295.00 19.20 322.00 13.20 4.60	0.00 6.60 143.00 16.20 241.00 22.10 262.00 22.90 287.00 15.30 370.00 7.60 384.00 6.70 441.00 5.80 501.00 1.79	12,00 6,50 00,00 9,40 151,00 16,70 243,00 22,30 262,00 28,70 374,00 11,90 380,00 7,60 433,00 8,10 531,00 0,00	502.00 0.00	247.00 22.50 262.00 23.00 299.00 19.30 330.00 12.50 362.00 9.10 394.00 4.20 442.00 4.70 494.00 10.00 535.00 0.00	231.00 22.70 258.00 23.60 258.00 18.00 315.00 12.00 324.00 9.40 355.00 5.20 483.00 1.50 519.00

39 b 7 7 1 = E		3444	1800	041E 8944 11ME	650424 11 1200		630509 17 1200	11#E 2014 011E		DATE SRVY TIME	630710 10 1200	0 A T E 8 P V Y T 1 M E	630613 15 1200	SRVY TIME	630925 16 1290
253.00 274.00 323.00 349.00 443.00 491.00 519.00	13.30 10.30 6.30 5.00 2.40	251.00 258.00 324.00 357.00 357.00 357.00 500.00	22.90 18.90 13.20 9.00 9.60 7.00 2.50	251.00 278.00 279.00 321.00 347.00 447.00 485.00	21.60 19.10 13.10 8.60 7.60 u.Au	242.00 279.00 302.00 326.10 367.00 417.00 447.00 492.00 531.00	2.30	242.00 267.00 267.00 358.00 356.00 435.00 576.00	22.40 22.90 21.10 13.20 9.20 8.40 8.70	300.00 324.00 365.03 390.00 424.00 451.00 473.00 494.00 550.00	18.50 13.10 8.60 8.60 8.00 8.00 6.00 6.00 6.00	250.00 290.00 303.00 350.00 355.00 402.00 402.00 407.00 562.00	23.50 20.40 16.30 11.80 9.10 4.60 4.00 .20	255.00 295.00 325.00 357.00 373.00 399.00 423.00 835.00 858.00	23.60 20.20 13.10 10.20 6.60 6.60 6.50 6.80 6.10 2.40
							PROF								
DATE SRVI TIME	1200	DATE SRVY TIME	1200	041E 88VV 11MF	1500	DATE SHVY TIME	1200	DATE SRVY TIME		74TE 88VY 71ME		DATE SRVY TIME	640511	SRVY	1200
294.00 333.00 371.00 412.00 456.00 499.00 544.00 596.00	12.10 8.40 8.50 7.80 6.20	334.00 372.00 412.00 456.00 500.00	12-10 8-30 8-50 7-70 8-10	321.00 333.00 424.00 515.00 560.00	11.70 5.40 6.30	244.00 293.00 322.00 373.00 425.00	20.60 12.00 7.90 4.50	202.00 252.00 302.00 342.00 344.00 382.00 423.00	19.00 12.00 11.00 9.60 6.30	275.00 303.00 334.00 347.00 410.00 447.00	22.30 19.60 12.00 9.60 5.10 3.40	250.00 299.00 335.00 367.00 414.00 450.00 499.00 544.00 583.00	23.80 19.90 11.80 7.90 7.90 7.30 0.00 1.40	271.00 334.00 374.00 413.00 447.00 479.00 508.00	11.80 7.00 8.10 8.00 4.30
							PROF1	LE 6							
DATE SRVY TIME	640910 25 1200	SHVY TIME	641104 26 1200	SRVY	650218 27 1200	3474 1146	1200 1200	5 pyv T 1 me	650527 29 1200	TIME	650816 30 1200	DATE SRV4 TIME	31 1200	DATE SHVV TIME	060415 32 1200
246.00 252.00 360.00 446.00 492.00 540.00	24 • 1 0 22 • 0 0 8 • 5 0 9 • # 0 2 • 9 0 • 5 0	279.00 301.00 332.00 377.00 439.00 465.00 510.00	22+10 19+30 12+60 10+40 6+20 7+50 5+50	336.00 370.00 388.00 417.00 474.00 545.00	12.30 10.50 7.20 7.80 .20 60	325:00 369:00 401:00 438:00 467:00	12.90 10.60 5.90 7.40 1.40	259.00 294.00 327.00 359.00 419.00 466.00 505.00 535.00 556.00	24.50 20.10 13.00 10.50 8.00 5.80 1.60 0.00	279.00 300.00 335.00 462.00 460.00 515.00 530.00	22.80 19.90 12.00 5.30 7.30 5.50 6.00 3.20	294.00 324.00 353.00 392.00 423.00	20.50 13.80 9.90 6.30 3.30	271.00 301.00 329.00 374.00 407.00 442.00	22.80 18.30 12.10 7.60 6.70 4.10
							PROFI	LE 6							
8 P v V	660830 34 1200	DATE SHVV TIME	670113 35 1200	DATF SRVY TIMF	670215 36 1200	04TE 3HVV TIME	670501 37 1200	SPVY	670726 3A 1200	SRVY TIME	670921 39 1200	SRVY TIME	671107 40 1200	3RVV TI™E	671206 41 1200
248.00 271:00 290:00 332:00 375:00 375:00 500:00	25-10 23-80 21-00 12-10 9-00 8-10 8-90 1-60	276.00 328.00 421.00 518.00	22.00 13.00 0.20 1.30	246.00 300.00 325.00 367.00 415.00 441.00	20.10 18.90 13.20 8.90 5.00 3.70	245.00 298.00 331.00 434.00 463.00	25.90 18.90 12.40 5.10 2.60	248.00 300.00 324.00 402.00 439.00 475.00 508.00	26.30 1A.40 14.00 7.00 7.80 A.00 3.20	244.00 301.00 336.00 361.00 "23.00 501.00 523.00	26.30 18.90 12.20 10.10 10.40 6.90 4.10	246:00 302:00 333:00 361:00 482:00 506:00 527:00	26.20 16.60 12.30 9.80 9.10 7.70 6.80 2.70	245.00 301.00 322.00 332.00 442.00 442.00 485.00 561.00	26.30 16.60 13.40 10.00 10.00 6.70 6.10 1.30
							PROFI								
39 V Y	1200	BRVY TI™E	6#0111 43 12^0	SRVY	680118 04 1200	SHVY	680124 45 1200	SRVY	660131 46 1200	SRVY	680207 47 1200	SRVY	680214 48 1200	DATE SRVY TIME	680220 49 1200
195.00 208.00 247.00 247.00 300.00 350.00 350.00 447.00 539.00	-19:70 22:490 25:490 25:490 25:490 15:50 11:10 10:40 5:60 3:80	246.00 260.00 278.00 300.00 324.00 350.00 425.00 486.00 530.00 546.00	26.30 24.80 22.00 18.20 13.60 11.10 7.00 4.80 5.10 1.40	245.00 271.00 294.00 395.00 350.00 355.00 455.00 498.00 515.00	26.30 23.30 19.40 13.50 11.50 10.80 5.30 5.90 3.50	245.00 258.00 273.00 260.00 298.00 323.00 416.00 451.00 494.00 518.00 518.00	26.30 25.10 22.90 21.00 18.70 13.60 10.20 7.30 6.30 6.30 2.90	246.00 259.00 274.00 281.00 .296.00 315.00 419.00 449.00 467.00 537.00	26.30 25.30 22.30 21.00 18.90 11.80 11.80 17.70 7.70 7.70	244.00 273.00 291.00 316.00 383.00 409.00 455.00 474.00 493.00 539.00	20.30 22.20 19.40 14.20 9.80 8.30 8.30 8.30 9.60 5.90 4.10	243.00 273.00 296.00 326.00 404.00 459.00 469.00 469.00	26.30 22.60 18.70 13.00 8.60 6.30 4.80 2.10	246.00 260.00 275.00 299.00 336.00 406.00 479.00 500.00	26 · 20 25 · 00 22 · 80 18 · 70 12 · 60 9 · 00 5 · 60 3 · 10

TIME 1	0228 50 200	DATE SHVY TIME	680306 51 1200	SRVY	68031# 52 1200	SHVY	680322 53 1200	DATE SRVY TIME	680327 54 1200	04TE 99VY TIME	681119 55 1200	SRVY	690117	TIME	690129 57 1200
270.00 2 301.00 1 334.00 1 379.00 441.00	6.20 2.20 8.30 1.90 9.90 8.70 5.80 1.70	257.00 279.00 299.00 330.00 345.00 465.00 465.00 457.00	20.10 22.30 18.50 12.20 9.60 7.70 5.60 6.20 8.90	246.00 274.00 296.00 330.00 356.00 433.00 475.00 517.00	26.20 22.60 19.30 12.60 10.80 6.80 6.20 1.40	246.00 275.00 295.00 332.00 332.00 427.00 427.00 460.00 490.00 507.00	26.10 19.30 12.60 9.30 6.20 5.70 4.60 1.30	248.00 275.00 300.00 325.00 545.00 479.00 515.00 549.00	26.10 22.00 18.40 12.80 11.30 8.10 9.20 5.30 .60	247.00 271.00 262.00 297.00 323.00 384.00 454.00 464.00 521.00 572.00 587.00 618.00	26 + 90 24 = 10 21 = 70 14 + 10 12 + 20 9 + 60 6 + 60 7 + 30 2 + 60 6 + 60 2 + 20 6 + 20	188.00 228.00 276.00 331.00 438.00 491.00 536.00	19-80 26-30 23-00 11-70 6-10 7-30 1-50	247.00 277.00 282.00 299.00 336.00 446.00 446.00 502.00 557.00 559.00 559.00	26.20 22.80 21.10 18.60 11.30 9.60 5.60 3.30 3.30 3.20 40 -2.90
							PROFI								
DATE 69 SRVY TIME 1	0207 58 200	DATE SRVY TIME	690213	88VY	690224 60 1200	DATE BRVY TIME	690228	Dajf Sevv Time	690310 62 1200	SRVY	690314 63 1200	9 PVY	690321	8RVY	690618 65 1200
256.00 2 276.00 2 274.00 1 304.00 1 336.00 1 356.00 4 450.00 4 450.00 4 450.00 5 35.00 0	7.30 6.20 3.20 11.20 7.40 7.40 7.40 7.20 4.60 90	247.00 274.00 286.00 300.00 339.00 407.00 459.00 597.00 683.00	20.50 20.60 15.30 11.50 9.10 7.20 5.10 80	247.00 274.00 282.00 299.00 328.00 354.00 411.00 415.00 404.00 484.00 884.00	23.50	247.00 276:00 303:00 336:00 376:00 450:00 464:00	23.40	247.00 276.00 283.00 300.00 329.00 405.00 442.00 481.00 521.00 583.00	26.20 23.00 21.20 12.80 10.70 9.40 6.70 5.80 .80 0.00	247 * 00 269 * 00 299 * 00 319 * 00 347 * 00 444 * 00 506 * 00 538 * 00 561 * 00 661 * 00 761 * 00	26.20 23.90 21.10 18.50 14.30 10.80 9.40 4.60 4.60 4.40 1.70	205.00 228.00 247.00 275.00 308.00 332.00 447.00 529.00 525.00	25.80 25.90 23.40 18.60 11.30 10.50 7.00	247.00 264.00 264.00 299.00 317.00 358.00 432.00 474.00 518.00 617.00 677.00	26.50 25.20 20.90 21.00 10.50 10.90 5.80 6.10 7.60 6.40 6.70 3.90 -2.10
							PROFI								
TIME 1	0918 66 200	3HVY	691125 67 1200	SRVV	691220	SHVY TIME	700115 69 1200	Savv Tire	700122 70 1200	SRVY TIME	700129 71 1200	DATE SRVY TIME	700211 72 1200	7 V 4 E	700219 73 1200
298.00 2 329.00 1 371.00 1 439.00 501.00	86.50 2.60 2.60 2.60 2.60 3.0 8.60 9.90 1.60 2.60	247.00 272.00 282.00 295.00 328.00 392.00 552.00 552.00 662.00	20.70 23.90 21.00 21.40 12.90 10.40 7.00 0.60 8.00 ~3.40	247.00 252.00 296.00 333.00 430.00 430.00 547.00 547.00	20.00 20.00 19.80 12.60 10.30 9.50 10.40 6.50	£15.00 244.00 252.00 298.00 347.00 347.00 347.00 527.00 527.00 527.00	21.40 20.90 12.90 9.90 9.90 10.20 5.80	280.00 287.00 294.00 338.00 464.00 511.00 553.00 619.00	22.60 22.60 27.10 17.00 9.70 10.40 6.60 6.90 2.70	280.00 294.00 331.00 337.00 421.00 481.00 506.00 559.00 601.00	22.00 22.50 22.10 12.90 10.50 9.80 10.50 5.20 1.30 8.60	275 + 0 0 331 + 0 0 373 + 0 0 406 + 0 0 516 + 0 0 563 + 0 0 718 + 0 0	13:10 10:90 10:10 6:20 8:00 4:80	247.00 271.00 291.00 302.00 328.00 368.00 424.00 529.00 588.00	26.90 23.90 22.10 19.30 15.00 10.30 8.60 7.00 4.90 1.90
							PROFI								
TIME 1	74	TIME	700304 75 1200	SPVV TIME	700512 76 1200	TIME	700318 77 1200	DaTE SRYV TIME	700507 78 1200	5RVY TIME	700812 79 1200	5RVY TI™E	700930 80 1200	TIME	701201 61 1200
247.00 2 271.00 2 290.00 2 328.00 1 378.00 1 433.00 486.00 536.00	6.80 3.60 1.30 3.00 0.60 9.20 7.30 6.10 1.40 =.80	248.00 273.00 292.00 328.00 371.00 431.00 486.00 528.00 638.00 650.00	26.90 23.60 21.20 13.00 19.40 7.60 7.70 9.40 7.70 8.30 8.20	246.00 274.00 328.00 328.00 446.00 486.00 520.00 588.00 613.00		246.00 278.00 293.00 328.00 370.00 461.00 513.00 560.00 591.00	26.20 22.00 21.40 13.00 10.70 9.90 8.60 9.00 5.70 1.80	247.00 277.00 289.00 328.00 378.00 498.00 560.00 598.00 678.00	26.70 21.20 12.80 10.40 9.60 4.40 2.00 -2.00	243.00 270.00 282.00 303.00 325.00 452.00 457.00 522.00 600.00 647.00	24.30 21.00 17.50 12.50	247.00 275.00 275.00 292.00 378.00 478.00 484.00 484.00 484.00 578.00 578.00 638.00	26.80 23.40 21.10 12.90 11.30 10.70 9.00 10.50 11.40 8.20 4.30 1.10	247.00 273.00 286.00 325.00 348.00 467.00 515.00 595.00 611.00	26.60 24.00 21.20 13.00 10.50 9.90 11.00 12.50 5.30 .40

	200 85	SRVY TIME	710196 83 1200	SPVY TIME	710212 84 1200	214E	710309 85 1200	SRVY	710408 86 1200	5 9 V Y	710604 87 1200	3RVY TIME	710811 - 26 1200	8844 114	711008 89 1200
370.00 1 410.00 1 477.00 1 520.00 545.00	0.30 0.30 0.30 1.40 6.90 6.70	247.00 277.00 273.00 325.00 340.00 380.00 420.00 477.00 500.00 514.00 505.00 609.00 660.00	23.00 22.70 12.90 10.60 11.20 9.50 9.50 9.50 2.00	274.00	10.20 10.30 11.30 9.70 1.0 .20 .50 -1.50	274.00 286.00 328.00 340.00 408.00 448.00 521.00 553.00 610.00	24.30 20.90 12.70 10.90 9.70 9.80 10.10 7.00 3.40 9.30	247.00 270.00 270.00 290.00 328.00 339.00 377.00 425.00 600.00 510.00 581.00 634.00 671.00 700.00	6.60 3.00 .90	570.00	25.30 23.90 19.50 12.50 10.90 9.90 10.30 10.20 6.70 8.30	247.00 269.00 279.00 330.00 373.00 372.00 420.00 476.00 536.00 576.00 679.00	24.60 19.20 12.60 11.10 10.00 10.30 9.60 10.40 8.40 2.40	269.00 263.00 330.00 354.00 360.00 476.00 532.00 567.00	28.90 24.70 20.10 12.80 11.30 10.20 9.90 10.50 9.10 3.30 9.10
							PROFI								
DATE 71 SPVY TIME 1	200	9# V Y	720103 91 1200	SRVY	720151	SHVY TIME	720205 93 1200	SAVV	1200	SRVY	720301 95 1200	5RVV TIME	720328	SHVY	720531 97 1200
269-00 2 287-00 1 317-00 1 451-00 1 541-00 1 586-00 1 631-00 731-00	2.40 9.70 2.70 9.80 0.10 0.10 0.20 9.40 7.60	253.00 269.00 278.00 298.00 330.00 396.00 449.00	10.4n 10.3n 10.3n 7.2n	260.00 288.00 329.00 360.00 411.00 466.00 513.00 583.00	20.00 11.90 10.10 10.20 9.70 9.70	310.00 344.00 360.00 409.00 460.00 513.00 602.00 650.00	10.50 10.30 10.80 10.50 7.20	260.0n 289.0n 329.00 360.00 398.00 450.00 531.00 611.00 642.00	26,20 20,00 11,90 10,60 11,00 11,10	278.00 310.00 336.00 403.00 450.00 516.00 578.00	22.00 15.50 11.10 10.70 11.10 11.20 7.40 7.60 2.80	276.00 3.3.00 313.00 323.00 3.5.00 443.00 516.00 571.00 603.00 656.00 678.00 696.00	17-10 15-30 12-00 10-70 11-10 9-80 5-80 2-50 1-60	282.00 307.00 352.00 407.00 452.00 482.00 538.00	21.70 16.20 11.20 10.50 11.00 10.40 10.40
							PROFI								
04TE 72 SRVY TIME 1	200	SRVY	721003 99 1200	5 P V Y	721205 100 1200	TIME	730103 101 1200	5074 1145	73n2n6 1n2 12nc	SRVY TIME	730213 103 1200	SRVY	730316 104 1200	SPV4 TIME	730324 105 1200
330.00 2 364.00 1 402.00 1 432.00 1 470.00 1 510.00 1	2.30 2.90 1.10 1.20 1.50 1.60 1.70 3.20	157.00	20.40 23.80 19.70 13.00 11.00 11.00 11.10 11.30 9.70 7.80		26.50 23.30 18.50 12.90 11.60	247.00 261.00 277.00 301.00 350.00 350.00 421.00 421.00 600.00 647.00 647.00 728.00 738.00	26.20 23.10 18.60 12.90 14.90 13.00 13.60	639.0n	22.80 18.50 12.70 11.50	265.00 276.00 301.00 327.00 351.00 367.00 401.00 405.00 608.00 616.00 616.00 668.00	23.30 18.70 12.80 11.40 11.40 12.00 10.90 7.60 4.90 2.30	247.00 276.00 375.00 375.00 470.00 470.00 470.00 570.00 570.00 671.00 671.00 671.00	23.20 18.20 12.50 13.10 11.50	263.00 278.00 303.00 528.00 396.00 468.00 491.00	20.90 23.20 10.70 12.70 11.30 12.00 11.60 7.60

DATE	730403	DATE	736612	DATE	730911	DATE	731219
SRVY	106	SRVY	107	SRVY	108	SHVY	109
TIME	1200	71"E	1200	TIME	1200	T1™E	1200
247.00	26.80	263.00	26.90	247.01	27.00	203.00	19.30
265.00	26.20	274.00	24.50	275.00	23.80	276:00	21.40
250.00	22.70	299.00	18.80	300.00	18.70	329.00	19.90
313.00	18.70	329.00	18.70	328.00	12.00	341.00	12.20
320.00	12.70	353,00	13.00	352.00	12.40	356.00	12.90
335.00	11.50	376.00	11.30	400.00	11.26	376.00	11.10
350.00	12.50	449.00	11.80	440.00	11.40	432.00	.11.20
360.00	11.50	498.00	10.30	485.00	11.30	457.00	11.40
398.00	10.40	532.00	9.60	-521,00	9.50	520.00	10.50
441-00	11-70	969.00	9.70	522.00	11.00	557.00	8.30
478.00	11.90	579.00	8.60	593.00	10.30	582.00	6.00
496.00	10.50	590.00	8,30	599.00	9.60	655.00	3,90
532.00	15.90	637:00	. 40	621.00	7.00	667:00	1.10
604.00	5.00	649.00	-1.00	955.00	5.40	688,00	.40
648.00	1.50			662.00	1,60	706.00	0.50
704.00	20			693.00	∞.30		
				718.00	-1.20		

SRVY	1200	SRVY	1200	DAT! BRVV TIME	621208	9HVY	1200	SPVV	630123	SRVY TIME	630207	5RVY	630221	SRVY	1500
215.00 248.00 248.00 363.00 414.00 462.00 520.00 593.00	19-30 20-70 11-10 9-40 7-40 -10 =1-50	217.00 265.00 289.70 312.00 379.00 419.00 449.00 505.00 516.00	7.40 11.97 20.90 12.30 12.40 -5.80 6.00 3.30 1.10 0.00 -40	290.00 297.00 332.00 336.00 377.00	17-30 13-20 10-70	0.00 50.00 90.00 208.00 302.00 341.00 353.00 392.00 452.00	6.80 7.40 7.90 18.90 12.20 6.70 7.30	2.00 60.00 108.00 220.00 244.00 358.00 320.00 352.00 396.00 431.00 483.00	7.10 6.60 8.30 10.90 11.30 26.60 14.00 9.20 7.70 5.10	290.00 293.00 324.00 341.00 401.00 450.00 467.00	18.30 14.10 8.90 7.70 7.50	303.00	19.20 16.60 14.10 9.60	293.00 33A.00 460.00 498.00	20°40 10°70 2°00 «90
							PROFI								
SAVY TIME	1500	5×VY †I™E	630409 10 1600	52V¥ 71≃E	630424 11 1200	DATE SHVY TIME	630509 12 1200	DATE SPVV TIME	1200	DATE SRVY TIME	630710	DATE SRVY TIME	630813 15 1200	SHVY TIME	630925 16 1200
292.00 295.00 312.00 338.00 388.00 490.00	27.70 19.50 12.00 10.20 5.60 .30	260.00 293.00 312.00 334.00 334.00 418.00 460.00 460.00 533.00	11.80 20.90 19.00 10.30 10.10 8.00 9.60 -70 -70	251.00 294.00 315.00 337.00 364.00 414.00 497.00	10.30 20.90 18.70 16.30 10.10 7.60 7.20 1.30 70	260.00 290.00 315.00 359.00 402.00 442.00 496.00 523.00	11.80 21.10 16.50 9.30 7.70 6.30 6.40 2.90 1.00	290.06 544.00 399.00 435.00 472.00 516.00 574.00 596.00	21.10 9.30 7.00 6.30 7.00 1.90 .30 80	350.00 399.00 456.00 481.00 551.00 563.00	8.40 7.10 7.20 3.90 .50	273.00 283.00 356.00 425.00 461.00 492.00 573.00	20.90 20.80 7.50 7.10 7.50 3.20	289.00 349.00 364.00 402.00 439.00 471.00 509.00	20.40 8.40 8.40 7.20 7.10 3.70 1.80
							PROF1								
SRVY	631030 17 1200	TIME	631101 1P 1200	SRVY	631115 19 1200	SRVY TIME	640108 20 1200	SPVV	21 21 1200	SRVY TIME	640312 22 1200	8 R V Y	23	SRVY	640713 24 1200
290.00 302.00 343.00 432.00 489.00 509.00 584.00	20.80 17:10 9.90 8:00 6:30 7:40 3:90	292.00 389.00 431.00 489.00 489.00 509.00 551.00	19.80 9.20 7.90 8.30 7.30 7.30 3.80 2.50	289.00 330.00 387.00 485.00 475.00 594.00	20.80 18.60 11.50 6.60 6.30 7.70 2.60	287.00 324.00 373.00 400.00 433.00	21,50 13.00 9.10 8.00 4.20	289.00 344.00 366.00 405.00 436.00 477.00	20.60 9.20 6.80 6.80 0.50	294.00 344.00 374.00 431.00 461.00 491.00 504.00 544.00	20.60 9.10 7.70 6.00 2.60 -1.10 .30 .10 20	288.00 303.00 333.00 344.00 388.00 423.00	20.50 17.80 10.00 9.10 8.40 8.80	290.00 345.00 386.00 433.00 489.00	21.00 9.10 5.40 8.90 1.90
							PROF1								
TIME	640910 25 1200	SRVY TIME	641105 86 1800	SPVY TIME	650216 27 1200	TIME	650412 28 1200	SRVY TIME	650527 29 1200	TIME	650816 30 1200	TIPE	860127 31 1200	DATE SHVY TIME	660415 32 1200
292.00 345.00 425.00 425.00 508.00 508.00	20.70 9.30 8.90 9.20 4.30 1.10	286.00 305.00 332.00 412.00 443.00 495.00 523.00	22.00 20.10 12.40 8.60 0.80 8.50 3.50	287.00 344.00 387.00 432.00 491.00 567.00	21.10 11.70 7.80 8.96 1.40 1.20	300.00 335.00 397.00 435.00 466.00	18.60 11.00 7.40 8.00 3.10	286.00 322.00 343.00 452.00 500.00 543.00 578.00	21.20 16.60 11.00 8.10 6.10 2.30	267.00 345.00 396.00 485.00 520.00 564.00 592.00 607.00	10.50	306:00 338:00 384:00 418:00	19.30 11.10 9.00 4.60	266,00 307,00 332,00 344,00 369,00 451,00 463,00	21.70 17.00 11.50 10.00 6.60 4.50
							PROF1								
SRVY	1200		660830 34 1210	5 R V V	670113 35 1200	3RVY T1™E	670215 36 1200	SRVV	670501 37 1200	SRVY	670726 38 1200		670921 39 1200	DATE SRVV TIME	1200
261.00 322.00 346.00 389.00 439.00	21.26 16.30 10.60 6.50 9.20 3.10	281.00 318:00 344:00 373:00 425:00 527:00 579:00 605:00	16.70 10.70 8.60 9.50 2.10	280.00 312.00 348.00 377.00 434.00 482.00 497.00 521.00	27.60 18.60 10.00 7.40 5.40 2.90 1.00	281:00 319:00 344:00 390:00 441:00	22.40 18.10 11.40 6.80 4.20	279.00 312.00 322.00 343.00 375.00	21.70 18.50 9.60 6.20 3.40	274.00 303.00 329.00 356.00 405.00 463.00 495.00	21.80 18.90 9.90 7.10 7.80 8.20 3.20	279.00 304.00 324.00 362.00 405.00 430.00	22.20 19:10 11:80 7:30 6:20 8:20	276.00 302.00 328.00 370.00 393.00 430.00 944.00	23 = 0 0 19 = 20 10 = 90 10 = 50 7 = 20 5 = 20 2 = 60

TIME	671206 #1 1200	SRVY TIME	680105 42 120)	3 P V Y	680111 43 1200	TIME	1200	59 V Y	680124 45 1200	SAVY TIME	680131 46 1200	8RVY TI™E		SRVY TIME	680214 48 1200
275.00 316.00 340.00 377.00 405.00 510.00 571.00	23.10 19.10 9.60 9.70 7.50 4.00 2.30	248.00 374.00 306.00 323.00 400.00 442.00 494.00 510.00	9.20 21:20 18:20 18:80 8:00 8:20 4:90 8:50 8:00	303.00 318.00 344.00 400.00 430.00 476.00 501.00	20.80 19.00 13.30 9.80 5.30 5.00 2.80 2.20	270:00 290:00 303:00 321:00 350:00 392:00 435:00 447:00	21.00 19.50 19.10 12.70 9.00 6.00 4.80 3.80		13.80 10.80 8.40 6.40 5.10 5.80	270.00 287.00 303.00 325.00 361.00 475.00 424.00 465.00	20.90 19.80 18.10 12.40 8.30 8.70 9.50 5.40 1.50	271:00 302:00 320:00 336:00 351:00 364:00 423:00 454:00	18.90 13.00 10.50 9.70 6.20	274,00 303.00 317.00 342.00 301.00 409.00 439.00 459.00	20.50 19.10 14.40 9.90 7.30 4.50 3.00
TIME	1200	5HVY TIME	680228 50 1200	SRVY	51 1200	5 H V Y	680314 52 1200	2 DAA		SRVY TIME	680327 54 1200	TIME	681119 55 1200	SRVY.	690117 -56 1200
269.00 301.00 329.00 349.00 397.00 439.00 473.00 498.00	20.60 19.00 11.50 5.60 5.90 5.20 4.80	271.00 302.00 314.00 329.00 410.00 425.00 440.00 452.00	21.00 19.10 14.40 11.40 8.00 6.00 3.60 2.50	301:00 322:00 361:00 401:00 437:00	20.80 19.20 11.70 6.00 5.40 3.10	270 * 00 301 * 00 322 * 00 360 * 00 438 * 00 454 * 00 474 * 00	19.10	270 - 00 303 - 00 328 - 00 374 - 00 420 - 00 462 - 00	19.20 11.90 7.40 3.80	273 a 0 0 30 a 0 0 33 9 a 0 0 36 6 a 0 0 418 a 0 0 43 6 a 0 0 525 a 0 0 541 a 0 0	21.00 19.00 10.40 7.80 3.80 1.20 .70	271 000 284 000 306 000 314 000 401 000 404 000 404 000 510 000 526 000 576 000	19.70 18.80 13.20 7.90 5.50 3.90 2.50 2.00 1.50	25000 26900 30300 32500 33100 43100 49600 51200 52800 54800	1.00
0.478	<b>6</b> 40154	0451	690207	0.105	640513	DATA	PROFI		690228	0486	690310	0475	69n31u	Date	690321
7 V P B	37	FIME	1200	8RVY TIMF	1200	SHVY	6.0	30 V V T 1 M F	1200	TIME	1500	98 V Y	63	SRVV	1500
303:00 322:00 352:00 431:00 468:00 523:00 608:00	19.40 13.40 10.10 3.70 .70 .20	303.00 329.00 371.00 396.00 441.00 491.00 545.00	18.60 11.20 8.50 6.20 3.40 1.60 =.90	303+00 322+00 356+00 351+00 398+00 458+00 535+00	18.30 12.00 9.10 8.70 7.00 1.30 =1.50	236+00 270+00 303+00 313+00 315+00 351+00 418+00	8.30 21.50 18.40 14.60 9.80 5.40 1.90	291.00 303.00 309.00 313.00 333.00 361.00	15.60 14.20 12.40 5.00 4.20	290.00 296.00 311.00 338.00 379.00 407.00 450.00 533.00 650.00	19:00 8:90 7:30 6:90 3:80 -00 =7:40	291.00 294.00 310.00 318.00 402.00 443.00 496.00 587.00	19.00 9.10 7.10 7.20 3.30	247.00 260.00 290.00 295.00 309.00 350.00	8.30 21.40 19.30 19.40 10.70 7.10 2.70
							PROFI								
5QVY TIME	690618 65 1200	SRVY TIME	69091A 66 1200	50VY	691125	SHVY	091220 0051	SPVV	700115	SRVY TIME	700122	SRVY	700129 71 1200	SRVY	700211 72 1200
274.00 297.00 317.00 349.00 393.00 423.00 480.00 587.00	20,50 19,30 18,00 10,00 7,90 8,50 9,40 2,70 =2,30	271.00 290.00 317.00 340.00 381.00 420.00 495.00 508.00 540.00	20,70 10+80 10+80 10+80 8-50 2+00 8-00	270.00 290.00 310.00 305.00 402.00 414.00 472.00 515.00 560.00	20.40 18.80 12.80 6.00 8.40 6.30 3.10 1.60 -1.00	272.00 268.00 311.00 311.00 429.00 489.00 514.00	20.50 19.10 12.70 8.40 6.70 2.60	270.00 290.00 308.00 400.00 438.00 465.00 507.00 570.00	20.70 12.50 12.60 8.20 8.60 5.90 5.80 2.40	289.00 300.00 327.00 358.00 395.00 422.00 460.00 480.00 500.00	18.90 18.40 11.00 8.90 7.10 7.20 4.10 1.90	269.00 290.00 302.00 355.00 372.00 438.00 487.00 532.00 597.00	20.70 15.50 14.60 11.40 8.70 7.20 5.90 1.90	273.00 290.00 302.00 318.00 356.00 400.00 445.00 492.00 528.00	19.50 15.60 15.10 12.10 9.50 9.00 4.50 1.60

DATE 700218 SRVY 73 TIME 1200	DATE 700225 SRVY 74 TIME 1200	DATE 700305 SRVY 75 TIME 1200	DATE 700312 SRVY 76 TIME 1200	DATE 70031A SRVV 77 TIME 1200	DATE 700507 SRVY 78 TIME 1200	NATE 700812 SRVV 79 TIME 1200	CATE 700930 8kVY 80 TIME 1200
274.00 25.70 290.00 22.00 301.00 19.10 310.00 15.70 368.00 11.40 399.00 9.80 426.00 10.10 471.00 5.90 544.00 2.70 581.00 1.80 621.00 =1.30	265.00 20.10 302.00 15.80 329.00 11.50 377.00 7.50 414.00 7.20 475.00 3.80 602.0090 674.00 -3.20	270.00 23.10 290.00 21.70 302.00 19.00 305.00 13.10 387.00 10.20 449.00 11.50 519.00 2.80 539.00 2.80 537.00 -2.70	271.00 23.00 285.00 20.40 290.00 19.50 310.00 15.20 332.00 11.80 420.00 1.80 470.00 3.50 490.00 1.80 510.00 =.50	271_00 21.00 290_00 19.60 308_00 18.50 337_00 11.30 399_00 11.70 417_00 12.60 448_00 8.80 483_00 3.90 518_00 =1.50	273.00 19.50 289.00 18.50 300.00 15.20 379.00 10.20 379.00 8.80 400.00 8.70 400.00 8.70 400.00 8.70 400.00 8.70 400.00 8.70 570 520.00 =1.10	270.00 20.50 294.00 17.90 312.00 14.30 334.00 10.40 404.00 10.40 419.00 8.00 419.00 8.00 484.00 8.00 484.00 8.00 504.00 70 504.0080	272.00 21:20 293.00 16:50 302.00 17:10 320.00 12:00 337.00 10:20 337.00 1:20 457.00 9:80 464.00 6:50 524.00 2:40 544.00 8:00
			PROFI				
04TE 701201 SRVY 81 TIME 1200	DATE 70121A SRVY H2 TIMF 12no	DATF 710106 SRVY 83 TTMF 1200	DATE 710212 SHVY 84 TIME 1200	DATE 710309 SRVV R5 IIME 1200	DATE 710408 SRVY 86 TIME 1200	04TE 710604 58VY 87 TIME 1200	04TE 710811 84V 88 TIME 1200
280.00 20.00 290.00 15.70 303.00 15.80 321.00 12.50 357.00 11.10 390.00 7.20 490.00 -1.10	265.00 19.60 305.00 15.30 333.00 15.30 375.00 8.40 435.00 0.70 475.00 4.50 505.00 2.00	283.00 20.10 300.00 15.50 324.00 12.10 302.00 9.70 301.00 8.40 435.00 1.70 503.00 =1.00	283,00 20,90 294,00 17,10 323,00 8.80 394,00 8.80 423,00 5.55 473,00 3.70 523,00 5.55 603,00 -1,00	271.00 21.40 285.00 21.50 315.00 13.30 336.00 10.70 424.00 3.60 473.00 3.60 517.00 7.10 550.00 1.00 601.00 30 621.0060	285.00 22.00 297.00 18.20 316.00 13.60 357.00 10.20 939.00 7.30 431.00 4.80 676.00 2.50 514.00 7.30 556.00 =1.30 581.00 =2.00	285,00 22.00 202,00 20.00 203,00 18.40 313,00 14.40 313,00 9.10 411,00 10.20 433,00 8.20 404,00 2.10 404,00 2.10 404,00 2.20 503,00 -2.20	204.00
			PQ 0 F 1				
DATE 711008 SRVV A9 TIME 1200	DATE 711201 SRVY 90 TIME 1200	DATE 720103 SPVY 91 TIME 1200	74TE 720131 54VY 92 TIME 1200	DATE 720205 SDVV 93 TIME 1200	DATE 720222 SRVY 94 TIME 1200	DATE 720301 SRVV 95 TIME 1200	DATE 720328 SHVY 96 TIME 1200
285,00 22,80 300,00 14,80 333,00 12,10 362,00 11,20 368,00 10,80 40,00 3,00 504,00 2,30 573,00 **50	281.00	2AA.00 21.90 300.00 18.20 325.00 12.90 378.00 6.30 572.00 4.10 655.00 2.10 675.00 -70 705.00 -40	265:00 23,00 297:00 16.80 226:00 12.90 369:00 10.00 405:00 6.00 415:00 6.10 476:00 2.30 606:00 2.30 606:00 -1.10 676:00 -1.90	297,00 18,50 316,00 14,10 336,00 11,60 366,00 7,40 426,00 4,70 475,00 2,70 475,00 1,10	285.00 22.60 297.00 16.80 313.00 16.50 364.00 7.80 303.00 5.70 427.00 4.10 478.00 2.00 496.00 .70 513.0050	297.00 18.60 310.00 155.30 300.00 10.10 393.00 6.00 487.00 2.30 487.00 2.30 518.00 .90 532.00 .30	287.00 27.00 17.50 330.00 17.50 330.00 17.50 330.00 17.50 320.00 17.50
			****				
04TE 720531 SRVY 97 TIME 1200	04TE 720809 9RVY MH TIME 1200	DATE 721003 SRVV 99 TIME 1200	DATE 721205 9HVY 100 11HE 1200	04TE 730103 SRVV 101 TIME 1200	DATE 730206 SRVY 102 TIME 1200	DATE 730213 SRVV 103 TIME 1200	DATE 730316 SPVY 104 TIPE 1200
2A7.00 22.50 297.00 18.10 310.00 10.10 375.00 9.10 417.00 9.20 429.00 7.50 407.00 2.30 502.00 .00 515.00 -20	307.00 15.70 339.30 10.50 387.00 9.90 424.00 7.50 487.00 9.00 524.00 2.90	307.00 14.80 339.00 10.60 385.00 10.10 422.00 9.70 425.00 7.60 465.00 4.20	289.00 22.30 297.00 18.80 310.00 15.30 332.00 12.80 384.00 10.10 485.00 7.80 486.00 7.80 530.00 2.70 550.00 3.10 605.00 1.50 629.00 .40	290.00 22.70 297.00 18.80 308.00 15.80 338.00 12.10 378.00 9.50 413.00 8.00 443.00 8.00 550.00 1.10 591.00 -20 610.00 -20	291.00 22.00 302.00 17.50 334.00 13.10 382.00 9.50 415.00 7.80 481.00 6.90 523.00 3.30 579.00 .80 616.00 -50 648.00 -1.70	288:00 22:90 301:00 17:70 229:00 13:30 366:00 9:50 403:00 9:50 409:00 4:00 409:00 1:00 523:00 =:50	260.00 22.40 297.00 16.70 307.00 15.60 329.00 13.00 362.00 6.60 412.00 6.60 412.00 6.60 402.00 2.70 602.00 7.60 602.00 -30 602.00 -30 602.0

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DATE 730524 8897 105 11ME 1200 291-00 21.80 297-00 19-00 309-00 15-90 329-00 13-30 351-00 9.80 408-00 4-10 440-00 2-10	DATE 730003 SAWY 106 TIME 1200 287:00 22:60 297:00 18:90 301:00 17:60 307:00 18:70 307:00 18:70 307:00 4:00 477:00 4:00 477:00 1:350 551:00 -:30	3947 107 TIME 1200 289.00 22.70 297.00 19.30 302.00 17.50 342.00 11.50	290.00 22.20 309.00 15.90 309.00 15.90 355.00 9.60 412.00 10.00 462.00 9.30 462.00 9.30 518.00 7.90 544.00 4.00	286.00 22.50			
			PROF:				
DATE 621011 SRVY 1 TIME 1200	DATE 021029 SRVY 2 TIME 1200	DATE 621208 SRVY 3 TIME 1200	DATE 630107 SRVY B TIME 1200	DATE 630128 SRVY 5 TIME 1200	041E 630207 SRVY 6 TIME 1200	DATE 030221 SRVY 7 TIME 1200	DATE 630312 SHV 8 TIME 1200
	106.00 8.70 135.00 9.10 172.00 11.30 183.00 11.60 222.00 11.40 254.00 11.10 278.00 8.80 334.00 8.70	28.00 6.50 51.00 6.30 64.00 7.00 106.00 9.80 121.00 9.80 142.00 9.80 169.00 10.60 273.00 7.90 270.00 4.10	137-30 10-20	0.00 6.20 8.00 97.00 4.30 97.00 4.30 97.00 4.30 123.00 123.00 123.00 123.00 123.00 123.00 10.40	72.00 8.70 122.00 12.80 133.00 10.20 192.00 11.80 245.00 7.30 275.00 8.10 307.00 3.40 334.00 1.10 349.00 10	72.00 6.10 100.00 8.10 124.00 13.10 104.00 10.00 200.00 11.10 220.00 9.40 220.00 9.40 288.00 5.30 008.00 =00	102.00 7.90 120.00 13.00 137.00 10.10 160.00 10.20 193.00 11.00 292.00 7.00 292.00 7.00 377.00 1.00
			PROF	ILE 8			
DATE 630321 8RVY 9 TIME 1200	DATE 630409 JRVY 10 TIME 1200	DATE 630424 SRVY 11 TIME 1200	DATE 630509 SRVY 12 TIME 1200	DATE 630617 SRVV 13 ITME 1200	PATE 630710 SRVY 14 TIME 1200	DATE 630813 SRVV 15 TIME 1200	DATE 030925 SRVY 10 TIME 1200
192.00 11.60 218.00 9.50 248.00 9.50 267.00 7.80 364.00 0.00	103.00 8.40 122.00 13.00 135.00 10.20 170.00 10.20 197.00 11.60 244.00 8.20 261.00 7.40 349.00 1.40 386.00 0.00	134.00 10.00 193.00 11.60 219.00 9.00 266.00 7.40 298.00 7.70	102.00 8,50 122.00 13.10 134.00 10.20 193.00 10.20 193.00 8,20 218.00 8,20 274.00 8,20 304.00 8,20 303.00 6,70 425.00 0,00	121.00 12.90 132.00 10.20 166.00 10.10 191.00 11.60 239.00 8.10 274.00 A.10 304.00 8.60 327.00 7.60 409.00 .20	273.00 8.20 307.00 8.70 350.00 6.40	125.00 13.10 132.00 10.80 138.00 10.20 157.00 10.20 107.00 11.80 240.00 4.10 315.00 9.00 376.00 3.20 404.00 0.00	119.00 12.00 138.00 10.10 107.00 10.30 191.00 11.00 240.00 8.40 312.00 8.40 343.00 6.00 366.00 2.10
			PROF	ILE B			
DATE 631030 8RVY 17 TIME 1200	DATE 631101 SRVY 18 TIME 1200	DATE 031115 SRVY 19 TIME 1200	DATE 640108 SRVY 2n TIME 1200	DATE 640121 SRVV 21 TIME 1200	041E 040312 89VY 22 71ME 1200	DATE 640511 SRVY 23 TIME 1200	DATE 640713 SHVY 24 TI~E 1200
203.00 11.10 254.00 9.10 299.00 5.30 334.00 6.70 384.00 880 414.00 81.20 459.00 9.10 522.00 =2.10	202.00 11.20 252.00 9.10 300.00 8.20 352.00 6.80 360.00 .70 411.00 -1.30 457.00 -2.30	267.00 7.00 300.00 7.50 350.00 1.20 394.00 2.90 432.00 2.30	120.00 13.10 134.00 10.20 153.00 10.90 176.00 14.00 204.00 10.90 238.00 8.60 276.00 7.70 342.00 5.10 364.00 4.80	130_on 10_70	141.00 10.30 157.00 11.00 173.00 14.20	121.00 13.10 131.00 10.40 157.00 11.40 170.00 11.49 204.00 10.80 244.00 8.40 351.00 3.40 354.00 33.40	204.00 11.20 239.00 8.80 307.00 9.10 337.00 5.00 348.00 4.20 381.00 1.80

SRVY TIME	640910 25 1200	DATE SHVY TIME	641105 26 1800	DATE SRVY TTME	650218 27 1200	DATE SHVY TIME	650412 28 1200	SRVY	690527 29 1200	DATE SHVY TIME	650516 30 1200	TIME SHYY DATE	660127 31 1200	CATE MRVY TIME	660415 32 1200
206-00 248-00 293-00 368-00 407-00 437-00	10.80 9.40 9.60 2.84 1.80 0.00	179.00 206.00 249.00 325.00 354.00 373.00 404.00	15.80 11.80 8.80 6.00 7.50 8.00 2.10	180.00 207.00 248.00 304.00 369.00 478.00	10:70 11:00 7:20 7:10 :40 :50	184.00 200.00 260.00 291.00 325.00 375.00	16.10 11.90 6.90 7.10 2.00	165.00 206.00 252.00 334.00 367.00 405.00 430.00	16.00 11.10 7.70 5.30 5.80 1.30	185.00 205.00 240.00 450.00 450.00 465.00 481.00	15.90 11.00 6.10 7.80 6.00 1.00 .30	139.00 178.00 23.00 236.00 294.00 324.00	10 - 10 16 - 10 11 - 10 5 - 10 8 - 70 3 - 50	162.00 201.00 220.00 275.00 325.00 377.00	16.20 12.10 9.70 7.40 8.70 2.20
							PROFI								
SRVY	660530 34 1200	DATE SHVY TIME	670113 35 1200	DATE SRVV TIME	670215 36 1200	DATE SHVY TIME	670501 37 1200	Date 8pvy TIME	670726 38 1200	DATE SRVY TIME	670921 39 1200	DATE SRVY TIME	671107 40 1200	DATE SRYY TIME	671206 41 1200
142.00 177.00 202.00 222.00 262.00 300.00 337.00 350.00 435.00	10.90 16.50 12.00 9.70 8.60 8.90 8.70 8.20 8.30 2.60	176.00 189.00 730.00 291.00 346.00	16.50 13.70 4.30 5.70 1.80	177:00 192:00 257:00 316:00 350:00	15.90 13.60 7.40 3.90 1.90	179.00 192.00 208.00 262.00 323.00 349.00	13.70 15.60 11.70 6.50 3.20 2.40	178,00 228.00 257,00 305.00 342.00	15.80 9.40 7.40 A.80 2.50	183+00 215+00 218+00 238+00 251+00	15.90 11.20 9.80 6.70 4.10	161+00 209+00 213+00 265+00 262+00 299+00	16.70 12.00 6.70 4.20 3.20 2.70	177.00 207.00 217.00 247.00 301.00 400.00 424.00	10-30 12-10 8-40 5-80 4-20 -70
							PROFI								
SRVY	680105 42 1200	SRVY	680111 43 1200	SPVY	1200	SRVY	680124 45 1200	SPVV	46 1200	SRVY	680237 47 1200	5944	600214 48 1200	5 H V Y	055084 9 1200
134.00 180.00 200.00 210.00 219.00 251.00 251.00 330.00	12.10 16.00 13.40 12.60 9.10 6.00 4.50 1.30	181.00 200.00 209.00 216.00 251.00 260.00 286.00 127.00		193.00 199.00 209.00 270.00 270.00 284.00	16.60 13.40 11.90 6.30 5.10 3.50	183.00 199.00 205.00 225.00 248.00 280.00 330.00	16.00 13.40 13.00 8.80 6.30 6.20 2.00	183.00 200.00 223.00 234.00 260.00 318.00	16.30 13.60 9.10 7.70 1.10 .60	182.00 199.00 207.00 219.00 233.00 253.00 275.00 287.00	16.20 13.40 12.60 9.60 6.70 4.40 1.00	186.00 199.00 211.00 213.00 270.00 287.00	16 = 0 0 13 = 1 C 11 = 20 7 = 9 0 3 = 4 0 2 = 0 0	184.00 199.00 211.00 215.00 244.00 272.00 312.00	18:00 13:40 11:10 7:60 5:00 3:90 4:90 2:10
							PROFI								
DATE BAVY TIME	680278 50 1200	3844 11*6	680306 31 1200		680314 92 1200		557080	DATE	480327 54 1200		681119 55 1200	6 D V V	A90117 56 1200	8000	690129 57 1200
186.00 200.00 206.00 216.00 235.00 261.00 278.00 293.00	16.00 13.30 12.50 8.20 7.20 4.30 2.70 2.10	185.00 199.00 202.00 236.00 262.00 275.00 269.00	10.10 13.10 10.10 0.00 6.00 3.70 Z.10	185.00 200.00 203.00 260.00 275.00	16.00 13.40 10.40 3.50 2.20		16.50 13.40 11.50 7.60 5.80 1.40	183.00 200.00 211.00 231.00 265.00 299.00 346.00	14.20 13.20 9.40 6.20 4.70 1.90	95.00 122.00 157.00 194.00 25.00 25.00 266.00	7.90 13.10 9.00 6.50 4.20 .80	75.00 116.00 148.00 148.00 248.00 271.00 338.00	7.00 13.50 10.00 7.00 5.70 3.00 1.50	123.00 148.00 148.00 246.00 275.00 298.00 359.00 7423.00 508.00	13.60 10.20 6.80 4.60 .90 30 40 =1.10
							PROF1								
SRVY	1200	DATE SRVY TIME	1200	8974	1500	3844	690228	30 V V	690310 62 1200	SRVY TIME	690314	OATE SRVV TIPE	690321	5 + V Y T I P E	690618 65 1200
148.00 198.00 217.00 298.00 298.00 348.00	10:00 6:50 6:30 4:00	14A.00 19A.00 224.00 24A.00 261.00 29A.00 411.00	10.10 7.40 5.50 2.80 20	75.00 124.00 148.00 148.00 248.00 248.00 348.00	7+10 13+30 9+80 3+70 -90	117:00 134:00 135:00 148:00 177:00 198:00	11.70 7.70 5.90	53.00 102.00 105.00 120.00 148.00 148.00 248.00 298.00 373.00	7.20 10.20 7.90 7.10 4.90 .20 60 40	104.00 112.00 148.00 198.00 213.00 248.00 298.00 372.00 454.00	7.60 5.90 1.30 20 .30	66.00 94.00 107.00 107.00 108.00 148.00 249.00 249.00 318.00	A.90 6.30 10.40 A.90 6.80 5.60 2.40 4.90 4.90	61.00 112.00 146.00 185.00 222.00 243.00 313.00 356.00 377.00 381.00 844.00 553.00	7.6C 10.9C 12.0C 12.0C 14.20 11.50 9.90 6.4C 7.40 6.10 9.00 7.8C 2.60 -2.20

290.00 10 335.00 9 368.00 7	5 SRV 00 TIM 00 150.0 60 185.0 10 187.0 200.0 200.0 217.0 30 200.0 217.0 310.0 340.0 349.0 349.0 349.0 349.0	14.50 10.30 7.60 0 6.80 7.20 0 5.70 0 2.50	TIME	14.10 11.40 6.30 3.60 1.10	5HVY T1ME  149.00 178.00 180.00 240.00 261.00 358.00 358.00 430.00	13.60 12.10 13.10 10.50 8.10 6.20 5.70	SOVY	13.60 12.20 13.50 13.10 9.70 7.00 5.90 5.90 6.80 2.30	\$847 1148.00 178.00 198.00 218.00 248.00 298.00 398.00 398.00 431.00 431.00	12.20 13.70 12.30 12.60 13.70 12.60 10.30 10.10 8.20 7.40 5.60	54 V Y T1 ME	13.70 12.50 12.50 13.30 12.90 9.80 9.80 4.80 1.00	SRVY TIPE	13.60 12.60 12.50 12.40 13.00 8.50 7.10 2.80 00
						PROFI								
DATE 700 SRVY 7: TIME 12:	5 TI*	700305 75 1200	3RVY TIME	700312 76 1200	SHVY TIME	70031A 77 1200	SHAA	700507 78 1200	SPVY TIME	700612 79 1200	SRVV	700930 80 1200	SHVY	701201 81 1200
346.00 2 433.00	60 174.01 60 :78.01	13.6n 12.3n 12.5n 12.5n 12.7n 6.7n 6.8n 2.6n	146.00 169.00 196.00 259.00 293.00 327.00 347.00 349.00 421.00 449.00	12.20 13.60 12.60 11.00 8.10 5.40 1.00 1.30 1.30	145.00 172.00 179.00 196.00 236.00 244.00 346.00 361.00 447.00 478.00	12.10 13.40 12.40 12.50 12.90 12.90 12.90 12.90 12.80 12.80 12.80	148.00 175.00 196.00 248.00 248.00 348.00 445.00	13.20 12.40 12.00 6.80 09.1	148.00 176.00 199.00 236.00 298.00 353.00 398.00 431.00	13.30 12.50 12.60 10.30 8.30 2.40	176:00 199:00 248:00 298:00 348:00 377:00 382:00	13:10 12:10 11:80 7:90 7:50 8:80 7:50 6:30		10.37 20.10 20.20 16.30 16.60 15.00 15.00 10.50 8.00 2.10
DATE 701	SRV	710106	3 R V V	710212	SHVY	710309	UATF Spvy	710408	SRVY	710604	5 R + Y	710811	SRVY	711008 89
TIME 12		1200	TIME	1200		1200		1200		1200	TIME	1200	71"6	1500
398.00 4	20 172-00 19.00 10 225-00 20-845 04	20-10 20-30 19-20 10-90 15-50 10-50 10-00 6-70 5-80 10-90	248.00 298.00 311.00 338.00	20.30 20.20 15.90 17.80 15.40 10.60 8.30 5.60 2.250 -1.60	148.00 173.00 127.00 220.00 220.00 288.00 335.00 335.00 375.00 426.00 440.00 440.00 545.00 570.00	16,70 19,80 20,10 16,00 15,50 15,50 10,10 0,00 3,50 2,30 0,10 0,10 0,10 0,10 0,10 0,10 0,10 0	148.00 165.00 178.00 223.00 223.00 223.00 235.00 346.00 346.00 346.00 448.00 448.00 517.00	16.50 17.40 15.70 11.00 9.00	14A.00 158.00 178.00 19A.00 26.00 266.00 29A.00 341.00 341.00 341.00 463.00 463.00 474.00	18:10 20:10 20:00 19:50 16:50 16:10 17:20 14:10 8:90 8:10 8:70 6:77 1:60 77	148.00 198.00 218.00 228.00 298.00 358.00 398.00 429.00 429.00	1.00	19A.00 214.00 238.00 24A.00 26A.00	12.10 11.20 6.20 09.6

DATE	711201	DATE	720103	DATE	720131	DATE	720205	DATE	720222	DATE	720301	DATE	720328	DATE	720531
5RVY	9.0	SHVY	91	SRVY	92	SHVY	93	SPVV	94	SRVY	95	5844	96	SHVY	97
	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200
					*****				*****						
145.00	16.50	147.00	10.50	149.00	16.60	145.00	16.60	148.00	16.90	148.00	16.60	175.00	19.40	148.00	16.70
175.00	20.90	160.00	18.80	171.00	19.60	198.00	20.10	177.00	20.50	180.00	19.90	198.00	50.00	178.00	50.50
195.00	20.90	197.00	50.00	199.00	20.10	248.00	16.60	198.00	20.40	198.00	20.10	555.00	20.40	194.00	20 - 10
218.00	19.70	555.00	19.50	555.00	50.00	298.00	17.30	551.00	20.60	511.00	19.50	236.00	14.00	555.00	21 - 10
230.00	18.20	247.00	16.60	238.00	17.70	353.00	16.00	535.00	18.50	553.00	50.40	548°00	16.50	284.00	16.50
245.00	16.60	540.00	10.60	544.00	16.60	324.00	10.00	240.00	17.40	238.00	17.50	291.00	10.80	298.00	10.80
295.00	17.30	208.00	16.10	275.00	16.20	348.00	7.10	267.00	16.40	269.00	16.50	334.00	7.70	344.00	7.80
320.00	15.70	296.00	17.30	298.00	17.30	398.00	4.40	290.00	17.10	292.00	16.90	348.00	6.70	374.00	5.80
330 - 00	9.20	323.00	9.50	379.00	9.50	485.00	1.00	319.00	A.00	298.00	11.40	387.00	5.20	398.00	4.20
345:00	6.00	347.00	8.60	351.00	8.80	403000	1.00	348.00	6.10	322.00	7.70	398.00	5.50	452.00	
375.00	3.20	398.00	6.60	376-00	7.70			394.00	3.80	348.00	6.10	448.00	7.30	479.00	
398.00	2.80	447.00	4.60	400.00	7.60			430.00	2.50	364.00	5.50	459.00	7.30		- • - •
445.00	1.40	496.00	•10	418.00	6.20			448.00		398.00	4.10	484.00	2.30		
495.00	+10	348.00	-1.40	448.00	7.30			44000	F. 8 C U	448.00	2.20	504.00	,60		
530.00	-1-10	574.00	-3.00	478.00	2.70					478.00	1.20	519.00	80		
560.00		31-400	-2000	499.00	.30					497.00	.60				
300000	- 2 0 0 0			537.00	-1.30										
				568.00	-2.40										
				30000											
							PROFI								
DATE	720809	DATE	721003	0475	721205	DATE	730103	DATE	730206	DATE	730213	DATE	730316	DATE	730324
SRVY	98	SRVY	99	SRVY	100		101	SRVY			103	57VV		SRVY	165
TIME	1200	TIME		TTHE	1200		1200	TIME		TIME	1200	TIME	1200	†I"E	1500
148.00	10.60	146.00	10.60	146.00	17.40	154.00	19.90	150.00		159.00		160.00		146.00	
178-00	20.00	150:00	18.30	174.00	20.50	183.00		197.00	20,00	500.00		1#8.00		159.00	
210.00	19.60	179:00	20-10	197.00		215.00		225.00		555.00		213.00		196.00	19.90
550*00	21.30	197.00	50.00	208.00	50.50	550.00		247.00		245.00		553.00		553.00	
238.00	17.40	2.77.00	19.50	555.00	21.90	533.00		275.00		276.00		536.00	17470	246.00	
548.00	10.50	555.00	20.90	233.00	\$9.00	245.00		581.00		285.00	12.50	540.00	16.90	278.00	
298.00	16.60	574.00	18.10	249.00	17.00	273.70		330.00		315.00	9.50	278.00	15.00	296.00	
298.00	11.70	248.00	10.50	278.00	16.50	278.00		368.00		405.00		312.00		313.00	
328.00	9.00	286.00		281 000	12.30	303.00		439.00	.30	#05 ¢ 00	0.00	33P.00		343.00	
348.00	7.70	336.00	15.00	297.00	10.70	393.00		469.00	-1.10			373.00		353.00	
377.00		337.00	9.50	341.00	6.50	445.00		303.00				403.00		33300	
430.00	A. 40 A. 40	344.00	7.30 5.50	348.00	4.80	465.00		303601	-1000			453.00			
442.00	6.00	374.00	3.20	451 - 00	3.90	-05000	01.30					498.00			
503.00		394.00	4.00	485.00	5.50							550.00			
518.00		434.00		509.00	. 40							568.00			
310000		449.00		530.00											
			- 640	330 800	****										
							PROF								
DATE	730403	DATE	730612	DATE	730911	DATE	731219								
	106		107		108		109								

					9 * * 0 * /	DATE	
DATE	730403		730612	DATE	730911		73121
8 R V Y	106	SRVY	107	SONA	108	3444	109
TIME	1500	TIME	1200	TIME	1500	TIME	1200
158.00	18.70	142.00	10.80	150.00	16.30	148=00	16.9
178.00	50.50	194+00	20.10	209-00	19.40	198 - 00	20.1
210.00	19.30	215.00	20.80	225.00	20.50	219.00	21.1
225.00	20.60	545.00	10.50	237.00	17.30	248.00	16.4
242.00	17.00	270.00	16.00	248.00	10.30	271 - 00	16.1
248.00	16.40	292.00	10.40	274.00	16.00	298.00	11.0
275.00	16.00	338.00	7.40	297.00	10.50	348.00	6.2
281.00	12.40	392.00	7.00	376.00	A.50	376.00	4.3
298.00	11.40	440.00	.30	345.00	7.40	398.00	2.6
337.00	6.60	497:00	.90	375.00	8.00	426.00	1.7
398.00	2.90	550.00	.20	398.00	8.00	448.00	. 4
448 00	1.60	557.00	0 4 0 0	415.00	5.40	479.00	7
464.00	20	569.00	60	441.00	2.50		
				478.00	.60		
				518.00	60		
				548.00	=1.60		

1200	SRVY	5	SRVY	3	TIME	1200	Date SRYV TIME	630123	SRVY	6	8844	7	DATE 8PVY TIME	1500
11.30 5.70 9.70 11.50 10.30 6.20 7.20 2.90	51:00 107:00 124:00 174:00 185:00 207:00 256:00 270:00 340:00	10.20	11.00 49.00 89.00 130.00 164.00 211.00 221.00 259.00 283.00	7.40 9.20 10.80 9.90 10.80 9.10 6.60 4.80	0 = 00 9 + 00 28 + 00 11 + + 00 130 + 00 219 + 00 270 + 00 320 + 00 356 + 00	7.60 7.60 9.00 11.20 9.30 10.80 7.30 8.00 4.30	0.00 6.00 20.00 52.00 107.00 131.00 207.00 231.00 275.00 276.00 304.00 334.00	7.40 7.30 8.20 9.70 11.10 8.90 10.90 8.80 7.80 4.10 1.10	117.00 160.00 199.00 259.00 289.00 351.00	10.20 10.00 11.10 6.90 7.90 0.00	100.00 126.00 180.00 206.00 319.00 425.00	11.20 9.40 9.90 10.80 4.20 1.50 20	6#.00 10#.00 137.00 177.00 204.00 251.00 269.00 334.00 359.00 864.00	9:90 11:30 9:40 10:00 10:90 7:80 6:90 7:30 1:80 0:00
1200	DATE SHVY	630409 10 1200	8RVY	11	SHYY	1.2	DATE SRVY TIME	630617 13 1200	DATE SRVY TIME	630710 14 1200	3844	15	D414 3444 11=E	630925 16 1200
7,30 4,10 1,80 ,80 ,10	10P=00 12R=00 201=00 261=00 34b=00 34b=00 391=300 435=00 500=00 52b=00	11.20 9.10 10.70 7.10 5.10 2.30 1.20 .70	101.00 127.00 125.00 257.00 307.00 339.00 383.00 427.00 463.00	11 = 30 9 = 30 10 = 40 7 = 40 6 = 70 6 = 70 6 = 10 1 = 50 = = 40	108.00 128.00 203.00 284.00 349.00 394.00 453.00 471.00			11.10 9.30 9.90 10.60 9.10 7.40 7.80 7.80 9.70 6.70 6.70	148.00 197.00 255.00 307.00 372.00 394.00 416.00 484.00	9.20 10.50 7.70 7.40 8.20 7.80 5.90 1.20	115.00 142.00 205.00 251.00 311.00 340.00 490.00	10=90 9-20 10-60 7-50 7-70 8-80 5-90 1-90	115.00 131.00 144.00 187.00 203.00 221.00 255.00 322.00 399.00 422.00	11.00 9.50 9.40 10.50 10.70 9.20 7.70 7.80 8.10 5.80 3.00
631030 17 1200	59VY	18	SRVY	1500	SKVY	1200	SRVV	1200	SRVY TIME	1500	5844 T14E	5.3	SRVY	640713 24 1200
11.10 9.20 10.60 8.80 8.30 8.40 9.50 2.40 9.70 9.1.40	114.00 136.00 202.00 230.00 231.00 335.00 373.00 419.00 468.00 509.00	11.00 9:00 10.50 8:00 6:30 6:40 8:40 8:50 	202.00 260.00 302.00 327.00 354.00 411.00 454.00 454.00 454.00 454.00 517.00	9,90 10,50 7,20 6,50 7,20 4,50 2,00 1,50	91.00 171.00 216.00 319.00 301.00 387.00	10.90 10.00 8.90 5.40 5.90 1.30	110.06 165.00 210.00 258.00 299.00 342.00	10.90 10.40 9.50 6.60 5.50 3.10 1.40	98.00 173.00 208.00 236.00 264.00 316.00 351.00 381.00 420.00	11.20 10.40 9.40 8.30 6.60 5.20 3.00 1.20	155.00 169.00 315.00 394.00 435.00 466.00	10.00 13:10 10.40 5.10 1.50 1.70	157.00 173.00 210.00 250.00 268.00 312.00 351.00 393.00	10.00 13.10 9.50 8.20 8.30 7.00 7.90 3.50
640910 25 1200	8844 11*E	1200	8R V V	27	SHVY	1200	011E	650527 29 1200	SRVY TIME	1200	SRVY	1200	DATE SRVV TIME	660415 32 1200
10.00 13.20 9.70 9.10 9.30 8.90 4.20 2.10	168.10 242.00 344.00 389.00 419.00	14.00 0.90 6.70 8.40 3.00	165.00 186.00 240.00 294.00 342.00 396.00 471.00	13.50 11.30 9.30 7.80 7.70 .70	172-00 188-00 285-00 335-00 370-00 408-00	13.50 11.10 7.30 6.10 5.70 1.90	174.00 203.00 209.00 325.00 375.00 408.00 450.00	13.70 9.60 7.17 7.60 5.90 1.30	169.00 200.00 295.00 470.00 470.00 468.00	13.80 10.30 7.10 7.70 2.10 1.50	167.00 193.00 253.00 308.00 325.00	13.90 11.30 8.00 4.90 3.60	173.00 195.00 266.00 359.00 353.00	1 # + 0 0 11 + 1 0 6 + 5 0 8 + 6 0 5 + 2 0
	11,30	1 SHYPT 1200 11200 12	1	1 SHYY 2 STAY 11-12 11-10 11-1	1	1	1	1	1   SAVY   2   SAVY   3   SAVY   8   SAVY   8   SAVY   8   SAVY   10   SAVY	1   SWY   2   SSVY   3   SVY   2   SSVY   3   SVY   2   SSVY   1   TIME   1200   TIM	1   3   1   2   7   2   5   5   1   3   5   1   2   5   1   1   1   1   1   1   1   1   1	1   10   10   10   10   10   10   10	1   200	1   3047   2   5047   1   200   1141   220   220

DATE 660620 SRVY 33 TIME 1200	DATE 660838 SRVY 34 TIPE 1200	RRVY 39	DATE 670215 SRVY 36 TIME 1200	DATE 670501 SRVY 37 TIME 1200	DATE 670726 SRVY 38 TIPE 1200	DATE 670921 SRVY 39 11ME 1200	OATE 671107 SHVY 40 TIME 1200
100-00 14-00 200-00 10-00 240-00 9-00 240-00 9-00 342-00 9-50 377-00 3-00	210.00 10.50	191-00 12-80 233-00 10-40 293-00 8-10 394-00 2-30 415-00 1-70	170:00	161,00 16,20 219,00 11,20 393,00 6,30 416,00 3,20	100.00   15.50 206.00   11.90 240.00   10.10 271.00   6.40 378.00   6.20 373.00   8.70 383.00   7.86 398.00   4.90	168:00 15:40 203:00 12:00 328:00 4:90 347:00 4:90 365:00 5:90 470:00 2:90	171:00 10:70 2CA:00 12:30 259:00 9:00 302:00 6:20 345:00 4:10 361:00 3:10
			PROFI				
DATE 671206 88VY - 41 TIME 1200	DATE 680105 SRVY 42 TIME 1200	DATE 680111 SRVY 43 TIME 1200	DATE 680118 SRVY 44 TIME 1200	DATE 680124 SOVY 45 TIME 1200	DATE 680131 SRVY 46 TIME 1200	04TE 680207 SRVV 47 TIME 1200	DATE 680214 SRVY 48 TIME 1200
172.00 15.40 269.00 8.50 331.00 3.50 459.00 0.00	154,00 10,30 170,00 10,30 175,00 15,30 199,00 13,30 233,00 10,10 268,00 6,60 316,00 2,80 336,00 2,30	180-00 14-30 206-00 12-90 230-00 10-80 270-00 6-50 306-00 3-80 351-00 2-80	169.00 15.40 182.00 14.30 215.00 12.00 255.00 7.10 304.00 3.80	176,00 14,90 213,00 17,10 218,00 16,70 248,00 7,60 279,00 9,60 323,00 1,90 333,00 1,90 3340,00 1,70 376,00 2,30 424,00 ,90	177.00 14.90 194.00 13.60 219.00 11.40 260.00 7.00 312.00 4.60 369.00 1.40	170.60 15.10 199.00 15.80 215.00 11.80 244.00 4.20 261.00 5.30 370.00 4.40 320.00 3.50 337.00 1.80 359.00 2.00 394.00 1.20	170.00 15.70 176.00 14.90 209.00 12.40 241.00 7.90 269.00 5.70 290.00 4.30 314.00 1.20
			PROFI				
04TE 680220 8RVY 49 TIME 1200	DATE 6AU22A SHVY Sn TIME 12ho	DATE 680306 8RVY 51 TIME 1200	DATE 680314 SHVY 52 TIME 1200	DATE 680322 Savy 53 TIME 1200	DATE 680327 SHVY 54 TIME 1200	DATE 681119 3RVV 55 TIME 1200	DATE 690117 SHVY 56 TIME 1200
170.00 15.10 203.00 13.00 2047.00 7.40 279.00 5.30 319.00 -40 334.00 -50	170.00 15.80 170.00 14.80 100.00 13.70 210.00 11.70 220.00 10.70 220.00 10.70 252.00 7.50 201.00 8.30 207.00 1.80	170.00 15.80 175.00 14.70 196.00 13.70 277.00 9.80 264.00 6.20 376.00 3.30 318.00 1.80	170.00 15.70 180.00 14.50 208.00 12.00 254.00 6.60 319.00 1.90 326.00 1.60	170,00 15,30 177,00 14,50 198,00 13,20 240,00 7,50 324,00 1,60 347,00 2,00	208.00 12.00 253.00 6.80 324.00 1.80	149.00 10.20 165.00 15.20 179.00 15.20 180.00 11.30 219.00 7.10 252.00 4.70 330.00 1.90 355.00 1.50 428.00 -90 485.00 -2.50	147,00 10:00 105,00 15:40 171,00 15:90 178,00 15:20 182,00 12:10 222,00 12:10 223,00 3:40 309,00 1:30 328,00 *60
			PROF!				
DATE 690124 SRVY 57 TIME 1200	BRVY BA TIME 1200	\$9VY 59	DATE 690724 SHVY 60 TIME 1200	Date 690228 SRVY 61 TIME 1200	DATE 690310 SRVY 62 TIME 1200	DATE 690314 SRVY 63 TIME 1200	DATE 690321 S444 64 TIPE 1200
171.00 15.91 182.00 12.01 205.00 9.71 253.00 4.44 273.00 3.64 300.0041 412.00 -1.91 461.00 -3.31	178.00 12.20 221.00 7.70 259.00 3.30 308.00 4.00 351.00 28.40	185.00 12.20 211.00 8.80 249.00 6.90 285.00 6.20 330.00 40	14A.00 10.00 171.00 15.90 202.00 9.00 269.00 3.00 401.00 -3.20	171,00 15,80 188,00 11,00 224,00 6,80 259,00 7,80 277,00 1,20	171.00 16.00 178.00 7.90 206.00 7.90 249.00 2.20 263.00 0.00 294.00 .50 357.00 1.00 427.00 =4.30	178.00 8.90 198.00 7.50 237.00 1.70 271.0050 283.00 1.50 331.00 1.40 404.00 -1.00	144.00 10:10 102.00 14:20 170.00 10:30 194.00 7:60 257.00 4:00 309.00 1:20 392.00 =1:50

DATE SRVY TIME	690618	DATE SRVY TIME	690918 66 1200	DATF SRVY TIME	691125 67 1200	DATE SHVY TIME	691720 68 1200	Date Savy Tire	700115 69 1200	SRVY	700122	DATE SRVV TI≃E	700129 71 1200	*4 V Y	700211 72 1200
168.00 205.00 239.00 246.00 283.00 324.00 357.00 415.00	14.70 14.60 15.20 14.60 9.20 7.00 1.10	166:00 195:00 239:00 297:00 346:00 379:00 395:00	15.50 15.40 16.20 11.70 9.40 3.90 R=30	174.00 239.00 309.00 368.00 417.00 451.00 489.00 590.00 615.00	14:40 15:30 10:40 10:80 11:80 9:10 4:20 1:30 -2:50 -3:70	174.00 247.00 252.00 314.00 317.00 413.00 455.00 462.00 537.00	14.50 15.10 14.50 10.50 11.20 7.40 7.40	174.00 214.00 247.00 291.00 334.00 405.00 462.00 486.00 517.00 559.00 609.00	14.60 15.20 11.40 10.40 11.40 11.40 9.10 8.10 3.00 •.20	174.00 205.00 246.00 222.00 329.00 365.00 445.00 469.00 507.00 511.00	14.50 14.70 15.30 11.30 12.20 11.80 10.10 8.60 5.10 .50	174.00 217.00 246.00 251.00 320.00 359.00 406.00 423.00 457.00 491.00 531.00	14.60 15.30 12.10 10.30 10.70 11.20 10.30 6.20 3.60 0.00	174.00 240.00 275.00 305.00 411.00 449.00 484.00 542.00 607.00 647.00	14.70 15.40 12.30 11.10 11.50 8.30 8.60 9.20 5.10 .60
							PROFI								
5RV¥ TIME	700218 73 1200	DATE SHVY TIME	700225 74 1200	8PVY TIME	700305 75 1200	3414	518007 A7 1200	Spvy T1MF	700318 77 1200	3HVY TIME	700507 78 1200	34VV TIME	700912	3AVY TIME	700°30 80 1200
174.00 214.00 245.00 257.00 308.00 404.00 451.00 525.00 601.00	14.80 15.10 15.30 12.90 11.20 11.40 9.90 9.40 3.50 .30	174.00 232.00 279.00 330.00 382.00 448.00 506.00 557.00 604.00	14+50 15-30 12-10 11-30 10-40 9-50 	174.00 210.00 244.00 280.00 348.00 412.00 457.00 473.00 518.00 568.00 599.00	14.70 14.70 14.90 12.00 11.30 9.60 9.30 8.70 7.60 1.00	174.00 216.00 239.00 262.00 305.00 349.00 390.00 453.00 507.00 557.00 597.00	14.70 15.00 15.50 13.30 11.00 9.70 9.80 9.20 5.70 2.20	174.00 201.00 242.00 282.00 321.00 370.00 415.00 462.00 504.00 575.00 612.00	14.80 14.00 11.00 11.80 11.20 10.80 9.70 9.70 9.70 9.70 9.70	174.00 207.00 246.00 285.00 340.00 395.00 435.00 490.00 537.00 570.00 565.00	14.80 14.70 14.90 11.60 10.80 10.30 10.00 7.90 3.40 -1.30	145.00 16A.00 175.00 213.00 265.00 360.00 415.00 475.00 510.00 540.00	12.00 18.70 18.70 18.90 17.80 14.30 11.20 9.00 5.90 .60	16A.00 177.00 245.00 254.00 345.00 345.00 345.00 44.00 460.00 442.00	14.80 18.50 19.30 10.10 15.50 17.50 13.60 11.50 9.20 4.20 1.10
							P90F1								
DATE BRVY TIME	701201 F1 1200	DATE SHVY TIME	70121A H2 1200	CATF SRVY TIME	710106 #3 1200	DATE SHVY TIME	710712	DATE SRVY TIME	710309 85 1200	047£ 9447 714£	71040A 8A 1200	747F 3977 71#F	710604 87 1200	TIME	710A11 85 1200
153.00 164.00 182.00 212.00 235.00 258.00 351.00 351.00 390.00 441.00 490.00 570.00	10 ⋅ 50 13 ⋅ 90 14 ⋅ 40 18 ⋅ 70 19 ⋅ 90 17 ⋅ 80 16 ⋅ 70 17 ⋅ 80 13 ⋅ 80 13 ⋅ 80 13 ⋅ 80 13 ⋅ 80 13 ⋅ 80 2 ⋅ 80 2 ⋅ 80	230.00 265.00 265.00 350.00 350.00 390.00 460.00 460.00 550.00	19-30 18-70 18-30 15-60 17-40 13-50 12-20 7-40 5-40 1-60	179.00 231:00 249.00 319.00 319.00 407.00 407.00 476.00 570.00 534.00	18.60 19.50 18.70 16.20 15.80 17.30 13.80 10.60 7.10 4.20 2.30 .20	180.00 219.00 264.00 317.00 352.00 352.00 427.00 447.00 504.00 504.00 602.00 644.00	18.60 18.80 19.30 16.20 15.90 17.10 14.10 6.00 2.10 0.00 30 30	174.00 236.00 254.00 265.00 264.00 304.00 381.00 411.00 451.00 502.00 557.00	18 + 60 19 + 50 18 + 70 20 + 10 16 + 20 15 + 30 17 + 30 14 + 30 8 + 50 8 + 50 8 + 50 9 + 30 11 + 30 9 + 10 9 + 10	181.00 217.00 257.00 265.00 284.00 314.00 375.00 375.00 489.00 489.00 548.00 606.00 622.00	18 - 40 18 - 70 18 - 80 20 - 40 15 - 20 17 - 20 17 - 20 15 - 20 11 - 90 6 - 20 3 - 20 - 20 - 30 - 20 - 30 - 30	1A7.00 219.00 252.00 2A4.00 3A4.00 317.00 372.00 389.00 412.00 457.00 476.00 509.00 507.00	1A.20 1A.50 1A.60 20.00 16.10 17.00 17.00 17.00 7.80 A.60 10.32 8.10 1.80 1.80 1.80 1.80	162.00 267.00 263.00 310.00 342.00 371.00 367.00 347.00 447.00 451.00 500.00 551.00	16.40 20.00 16.20 15.00 17.10 15.10 -10.70 9.50 6.40 7.00 3.70 30
							PROFI								
5RV¥ TIME	71100B 89 1200	9HVY TIME	711201	5PVY TIME	720103 91 1200	SHVY	720131 92 1200	DaTE SRVY 17ME	720205 93 1200	3414F	120222	5944 TIME	720301 95 1200	SHVY	720328 96 1200
186.00 241.00 243.00 293.00 343.00 368.00 416.00 441.00 447.00 447.00 533.00 573.00	18.60 20.10 16.20 15.70 17.00 15.60 10.80 10.70 11.10 8.70 6.60 1.80 =1.20	181.00 218.00 259.00 283.00 313.00 346.00 368.00 361.00 418.00 473.00 523.00 568.00	16.60 18.60 20.50 16.30 15.10 17.00 12.30 9.70 9.70 5.30 1.30	180.00 221.00 272.00 272.00 283.00 310.00 348.00 348.00 348.00 415.00 415.00 498.00	18.30 18.60 19.90 17.50 16.00 14.70 16.80 15.30 11.50 9.90 7.00 3.00 = 10	245.00 287.00 314.00 345.00 374.00 393.00 414.00 466.00 483.00	19,50 16,00 15,00 16,80 14,70 11,20 6,20 8,20 8,20 8,20	263.00 278.00 300.00 345.00 368.00 382.00 425.00 468.00 500.00	21.50 17.10 15.40 16.80 15.90 13.50 10.30 6.90 1.40	187:00 215:00 245:00 261:00 283:00 307:00 345:00 358:00 417:00 444:00 446:00	18 + 60 18 + 30 19 + 30 21 + 40 16 + 10 14 + 80 16 + 50 16 + 80 17 + 70 5 + 30 2 + 90 6 + 90	194.00 245.00 245.00 244.00 244.00 317.00 345.00 356.00 361.00 432.00 440.00 501.00	18.30 19.30 21.20 16.20 15.00 16.50 16.90 17.30 9.90 7.40 1.90 .80	161.00 213.00 245.00 261.00 261.00 313.00 345.00 345.00 345.00 441.00 446.00 446.00	19.50 18.50 18.50 19.50 19.10 19.50 19.90 11.80 0.80 7.70 4.30 90

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LIME	720531 97 1200	SRVY	720809 98 1200	SPVY	721003 99 1200	TIME	721205 100 1200	DATE SHYV TIME	730103 101 1200	DATE SRVY TIME	730206 102 1200	84 V V T I ™ E	730213 103 1200	3877	730316 104 1200
195.00 201.00 200.00 345.00 3-3.00 401.00 453.00 401.00 453.00 541.00 573.00	1 A . 90 21 . A0 1 h . 10 1 h . 10 1 7 . 00 9 . 80 8 . 80 5 . 80 1 . 10 . 30 . 40	244,00 261,00 273,00 365,00 343,00 353,00 367,00 391,00 473,00 473,00 504,00	19.50 21.60 17.90 14.90 16.60 17.00 12.50 10.00 9.90 1.50 0.70	145.00 172.00 209.00 242.00 241.00 272.00 309.00 349.00 415.00 472.00 572.00	10.70 17.20 10.60 21.50 17.60 14.80 14.80 14.80 14.80 14.80 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.6	100.00 201.00 201.00 270.00 270.00 284.00 311.00 343.00 353.00 359.00 361.00 401.00 437.00	18.50 19.50 19.50 21.50 15.40 16.10 14.90 17.00 17.00 12.60 9.20 4.70	200.00 232.00 246.00 260.00 270.00 261.00 300.00 340.00 340.00 362.00 405.00 451.00 551.00	1 A . 60 1 0 . 30 2 1 . 20 1 A . 00 1 A .	169.00 185.00 205.00 272.00 307.00 350.00 352.00 365.00 485.00 528.00	10.50 19.00 14.30 20.90 17.90 14.90 10.90 11.80 7.80 2.50 .70 20	172.00 192.00 279.00 270.00 270.00 312.00 344.00 354.00 355.00 405.00 405.00	16.50 19.10 19.50 21.50 17.80 16.80 16.80 16.80 13.40 11.00 3.60 2.40	178.00 210.00 200.00 270.00 270.00 315.00 348.00 362.00 391.00 419.00 443.00 453.00 528.00 528.00	10.90 10.50 10.50 10.50 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60 10.60
							PPOF1								
5RVY TIME	730324 105 1200	TIME	730#03 106 1200	3PVV TIME	730612 107 1200	TIME	730911 108 1200	SRVY TIME	731219 109 1200						
175.00 192.00 235.00 267.00 280.00 308.00 355.00 363.00 363.00 415.00 415.00 457.00	17.20 19.00 19.00 21.30 16.80 14.80 16.80 16.80 16.80 16.40 9.40 6.10 2.10	179.00 214.00 261.00 279.00 307.00 351.00 359.00 449.00 501.00 551.00 551.00 603.00	18-42-0 18-42-0 16-42-0 16-43-0 16-43-0 17-53-0 18-46-0 18-0 18-0 18-0 18-0 18-0 18-0 18-0 18	180 - 00 221 - 00 241 - 00 241 - 00 347 - 00 347 - 00 350 - 00 370 - 00 447 - 00 447 - 00 447 - 00 457	18.60 18.10 21.00 14.90 16.90 12.00 10.80 9.10 8.10 8.10 8.20 4.10 3.30 4.70 	176.00 225.00 230.00 275.00 275.00 343.00 343.00 344.00 447.00 447.00 457.00 500.00 520.00	18.70 19.10 17.40 15.30 16.80 11.90 10.50 6.60 3.90 0.00	180,00 210,00 273,00 303,00 350,00 350,00 350,00 468,00 468,00 548,00 573,00	19.10 1A.50 17.60 15.10 16.30 1A.70 12.50 9.80 3.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1						
							PROF1	LE 10							
SPVY TIME	1200	SRV4 TIME	0021 0021	SPVY	621208 3 1200	TIME	630107	Seve	630123	SRVY	630207 H 1200	SRVV	630221	11 ME	1200 1200
143.00 180.00 252.00 273.00 343.00 398.00 428.00 456.00	10.80 11.40 11.50 10.70 1.40 1.40 .20	55.00 94.00 127.00 143.00 147.00 248.00 316.00 340.00 359.00	13-00 12-60 10-60 11-70 11-80 7-20	26.00 60.00 87.00 119.00 178.00 217.00 241.00 267.00 294.00	7:40 9:00 11:00 12:10 11:50 11:40 7:70 4:90 3:70	0.00 15.00 22.00 42.00 61.00 138.00 101.00 240.00 267.00 291.00 330.00	5.30 7.60 8.80 10.40 12.10 11.20 11.30 7.80 4.90 2.00	0.00 16.00 26.00 146.00 213.00 259.00 394.00 405.00	5.30 7.80 10.40 11.20 6.90 .60	147.00 172.00 205.00 220.00 254.00 301.00 419.00	12.40 11.20 11.50 10.80 7.30 4.70	140.00 144.00 154.00 200.00 240.00 317.00 349.00	11.60 12.20 11.20 11.50 8.70 4.60 1.80 20	114.00 139.00 141.00 159.00 208.00 281.00 313.00 342.00 392.00	11:40 11:90 12:70 11:00 11:30 4:90 3:90 1:40
							PROFI	LE 10							
8R√7 † ] ≻£	1500	SRVY TIME	1800	99V*	1300	9447 9117	630509 12 1200	SUAA	630617 13 1200	34 V Y	630710	9844 TIME	630813 15 1200	9RVY T1™E	630925 16 1200
178.00 209.00 384.00 332.00	11.50 4.40 .60	103.00 144.00 216.00 251.00 275.00 306.00 411.00	11.90 11.70 7.80 6.20 6.50 2.40	143.00 214.00 240.00 272.00 302.00 394.00	11.90 11.00 8.50 6.50 7.20	142 • 0 183 • 0 210 • 0 257 • 0 257 • 0 305 • 0 336 • 0 369 • 0	10.90 11.30 6.70 7.60 8.20 3.40	112.00 145.00 154.00 185.00 207.00 223.00 248.00 290.00 315.00 424.00 461.00 498.00	11.60 11.00 11.30 9.90 8.40 6.10 6.60 1.70	151.00 176.00 207.00 244.00 295.00 323.00 391.00 439.00	11.50 11.00 11.30 8.30 7.60 6.10 8.00	141:00 204:00 253:00 289:00 321:00 424:00 447:00		150,00 163,00 209,00 239,00 270,00 350,00 372,00	11 = 90 11 = 20 11 = 30 8 = 30 7 = 90 5 = 00 2 = 30

TIME	631030 17 1200	SRVY TIME	631101 18 1200	SRVY	631115 19 1200	TIME	640108 20 1200	041E SOVY 11ME	640121 21 1200	SRVY TIME	040312 22 1200	SRVY	640511 23 1200	SHVY TIME	640713 24 1200
146.00 163.00 189.00 208.00 2378.00 378.00 478.00 517.00	11.20	145.00 165.00 207.00 258.00 317.00 376.00 477.00 516.00	11.00 11.10 8.00 8.30 6.40	140.00 166.00 222.00 351.00 380.00 451.00 479.00	10.00 7.50 5.50 6.50 6.10 3.00	103.00 133.00 166.00 343.00 367.00	10.80 15.50 11.70 3.60	134,00 164,00 193,00 239,00 274,00 310,00	14.50 12.10 10.70 7.20 7.30 2.80	102.00 138.00 165.00 240.00 289.00 325.00	11.50 8.00 8.00	139.00 163.00 234.00 267.00 299.00 330.00 362.00 379.00	11.60 8.50 9.00 9.10 5.60 1.10	164.00 227.00 297.00 325.00 367.00 390.00	11.60 6.60 9.70 6.90 3.20 1.20
							PROFI	LE 10							
5974 1145	640910 25 1200	TIME	641105 24 12°0	3 P V Y	650218 27 1200	5kvy TI™E	650412 28 1200	Spvy Tj me	650527 29 1200	DATE SRVY TIME	650816 30 1200	DATE SRVY TIME	660127 31 1200	SRVY TIME	660415 32 1200
163.00 203.00 228.0 318.00 378.00 413.00	9.80 9.50	138.00 155.00 198.00 248.00 323.00 365.00 390.00 404.00	15.70 13.10 11.50 11.10 6.20 7.90 3.10	138.00 149.00 204.00 270.00 284.00 319.00 389.00	14,90 12.80 11.00 9.90 7.70 8-10 1.20 70	142.00 173.00 226.00 323.00 359.00	14.80 11.60 10.40 7.80 2.40	142.00 189.00 259.00 314.00 378.00 418.00 453.00	14.00 10.90 9.70 7.10 6.20 1.50	145.00 359.00 369.00 480.00	5.70	140.00 180.00 243.00 273.00 288.00 302.00	12.90 7.40 5.40 4.70		12.60 7.60 8.00 4.10
							PROFI	LE 10							
SRVY TIME	660830 34 1200	DATE SRVY TIME	670113 38 1200	DATE SQVY TIME	670215 36 1200	DATE SHVY TIME	670501 37 1200	3 R V V T <u>1</u> ™E	670726 38 1200	SRVY TIME	670921	SRVY TIME	671107 40 1200	3+V4 71ME	671206 41 1200
64:00 127:0 185:00 240:0 284:00 316:00 326:00 386:00	12.00 12.00 12.00 12.30 8.10 6.80 9.80 8.00 = 10	179.00 203.00 254.00 319.00 361.00 422.00	5.70 5.30 7.80	299.00	14.60 12.30 9.40 6.30 7.20 3.60	188.00 209.00 264.00 314.00 342.00	13.10 11.10 10.20 6.30 2.50	179.00 196.00 214.00 260.00 272.00 323.00 348.00 366.00 362.00	14.60 12.00 11.30 10.70 8.60 8.10 7.10 5.00	179.00 190.00 214.00 253.00 350.00 400.00 439.00 456.00	15.10 13.10 11.30 11.00 3.30 5.00 5.70 4.10	152.00 204.00 253.00 304.00 370.00 409.00 442.00	14.40 11.70 10.60 7.70 4.90 2.90 2.20		14.90 12.90 11.00 4.10 1.40 .40 .40
							PROFI	LE 10							
BRYY TIME	650105 42 1200	5HVY TIME	680111 43 1200	SPVV TIME	080118	TIME	640124 44 1200	DATE SRVY TYME	660131 46 1200	TIME	680207 47 1200	TIME	680214 48 1200	SHVY TI=E	690220 49 1200
118.00 165.00 161.00 201.00 245.00 289.00 321.00 366.00	15.40 14.90 12.40	180.00 194.00 245.00 289.00 318.00 338.00	12.80 10.90 6.30 7.00 4.50	154.00 193.00 231.00 271.00 278.00 311.00 328.00	15.30 14.90 12.50 11.10 8.00 6.20 4.00 3.30		12.80 11.20 4.50 4.30 1.70 2.00 1.60	232.00 281.00 320.00 357.00 396.00 407.00	14.90 12.80 11.10 7.00 6.00 4.00 1.70	180.00 195.00 231.00 265.00 332.00 386.00	11.00 8.30 6.50	204.00	12.40 9.30 6.30 6.00	166.00 162.00 196.00 214.00 256.00 298.00 330.00 367.00	15.50 34.80 12.80 11.90 9.70 6.40 6.60 6.50
							PROFI	LE 10							
	1200	DATE SRVY TIME	080306 51 1200	SRVY TIME	68031# 52 1200	TIME	680322 53 1200	1145	680327 54 1200	21 ME	681119 55 1200	SRVV TIME	690117 56 1200	SRVY TIME	57 1200
166.00 182.00 196.00 271.00 303.00 330.00 335.00	14.66 12.80 8.30 7.90 5.80 3.70	100.00 182.00 191.00 222.00 260.00 302.00 332.00 352.00 373.00	14.60 13.40 11.30 7.70 5.50 6.40 3.00	159,00 142,00 195,00 254,00 372,00 345,00	14.80 13.10 9.20 5.20	109.00 102.00 195.00 247.00 303.00 351.00 363.00	14.80 13.20 9.50 5.30 2.30	172,00 183,00 195,00 249,00 317,00 347,00 347,00 429,00	15.10 14.00 13.10 9.10 4.40 5.10 9.00	129.00 154.00 100.00 193.00 221.00 270.00 303.00 324.00 358.00 440.00 456.00 474.00 507.00	13.90 15.30 15.20 11.90 7.90 7.90 2.00 1.10	134.00 175.00 185.00 195.00 223.00 285.00 379.00 395.00 395.00	11.90 15.70 15.90 15.50 11.00 7.90 7.50 3.40 1.00 .20	221.00 273.00 321.00 351.00	15.70 15.10 11.20 9.70 7.70 4.40

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3964 71°E	1200	5947 11mt	1849	50 v V	1500	3 " V Y	1200 1200	2614	690310 62 1200	59VY TIME	690314 63 1200	3 B 4 4	1200	3844 314E	690618 65 1200
193-00 197-00 223-00 273-00 310-00 364-00 406-00 511-00	15.20	163.00 196.00 223.00 275.00 331.00 383.00 424.00	15.30 10.90 9.70 8.20 1.20	133.00 183.00 198.00 226.00 233.00 283.00 378.00	15.60 15.40 11.10 10.90 6.00	103.00 197.00 225.00 238.00 279.00 328.00 352.00	15.40 11.10 10.50 8.90 2.90 1.70	196.00 225.00 247.00 286.00 336.00 396.00 448.00 532.00	15.60 15.20 11.20 9.10 5.90 5.10 1.60 .80 -1.90	183.00 198.00 233.00 267.00 323.00 435.00 435.00 591.00	-1.80	121.00 158.00 174.00 193.00 198.00 223.00 272.00 298.00 363.00	13.50 15.50 15.60 15.20 10.70 8.80 4.60	163.00 222.00 249.00 289.00 324.00 373.00	8.90 8.10 2.30
38VY	690918	TIME	691125 67 1200	3 P V V † 1 m F	691220 68 1200	34VY T10F	700115 69 1200	SRV4 TIME	700122	5RVY TIME	700129 71 1200	3 R V V	700211 72 1200	SHVY	
191.00 212.00 234.00 261.00 376.00 402.00 425.00 474.00	13.20 10.60 9.10 9.00 7.60 4.60 3.40	174.00 297.00 237.00 277.00 294.00 324.00 124.00 417.00	15.80 14.40 10.20 10.10 8.30 8.30 8.80 10.10 10.10 10.10 10.10 10.10		11.20 7.00 4.00	178=00 206=00 241=00 274=00 316=00 348=00 449=00 477=00	14.30 10.90 9.30 8.10 6.30 3.70	154.00 200.00 208.00 227.00 274.00 329.00 370.00 438.00	15.70 13.70 12.30 9.40 7.60 6.20 1.20	179+00 210+00 226+00 258+00 305+00 336+00 400+00	16.00 13.20 11.90 9.60 8.60 5.50 3.70	192.00 211.00 224.00 261.00 295.00 302.00 347.00 347.00 395.00	13.20 12.20 9.20 6.70 7.40 8.30 5.10	183=00 213=00 223=00 251=00 291=00 323=00 371=00 443=00	13-10 13-10 10-80 8-20 7-10 2-90
DATE	700225 74	DATE STAC	700305 75	BDVV	700312	DATE	700318	DATE	701507 78	DATE	700812		700430 80	CATE	701201
TIME	1500	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200	TIME	
160.07 209.00 233.00 273.00 317.00 362.00 408.00	13.60 12.40 9.20 7.30 2.20	156.00 206.00 255.00 299.00 339.00 391.00 471.00	16.60 12.50 5.80 7.20 6.90 .60	179.00 197.00 295.00 294.00 324.00 354.00 354.00 413.00 423.00	16.30 15.30 12.80 10.00 8.90 8.50 6.30 4.50 1.20	176.00 207.00 230.00 248.00 258.00 321.00 372.00 418.00 457.00	13.90 12.70 10.60 9.10 8.70 6.00 2.30	175.00 211.00 223.00 223.00 238.00 238.00 341.00 341.00 410.00 433.00 448.00	13.60 12.70 12.90 11.40 7.70 7.30 5.50 5.10 2.60	195.00 211.00 238.00 336.00 348.00 376.00 423.00 444.00	13.50 11.60 8.10 9.10 6.90 3.90 2.20	1A8.00 249.00 240.00 352.00 340.00 342.00 347.00 347.00	14.00 11.50 8.70 8.50 8.30 6.80 4.20 1.10	185.00 197.00 209.00 259.00 359.00 339.00 341.00 539.00	16.10 14.10 13.10 10.20 4.90 2.10 00
							PROFI	LE 10							
SRVY TIME	701218 82 1200	SRVY	710to6 83 1200	39VY	710212 84 1200	SHVY	710309 85 1200	SRVY	710408 #6 1200	SRVY	710604 87 1200	5RVV TIME	710811 #8 1200	384A	711008 89 1200
190.00 202.00 208.00 210.00 252.00 295.00 334.00 364.00	16.10 14.50 14.40 11.60 6.40 3.70 2.40 2.00 .80	186.00 203.00 208.00 213.00 239.00 274.00 289.00 304.00 329.00	16.00 14.20 10.60 7.50 4.60 3.20 1.20	196.00 207.00 208.00 252.00 252.00 252.00 310.00 310.00	10.30 14.30 11.90 6.20 2.70 .90 -50	183.00 197.00 205.00 209.00 217.00 248.00 271.00 321.00 365.00 423.00	15.70 14.40 14.20 8.80 6.90 5.30 =.10 =2.20	179.00 199.00 203.00 204.00 247.00 363.00 402.00 437.00 467.00 469.00	14.70 14.30 11.40 6.90 2.70 .20 .20	158.00 168.00 202.00 230.00 277.00 306.00 329.00 342.00	12.60	273.00 254.00 373.00 345.00 392.00 412.00	15.30 12.50 8.60 5.00 4.80 1.20 4.80	191.00 203.00 214.00 253.00 300.00 331.00 332.00 364.00 406.00 456.00	15.30 12.30 10.50 9.50 10.10 9.90 8.60 5.70 2.80 70

DATE	711201	DATE	720131	DATE	720205	DATE	720222	DATE	720301	DATE	720328	DATE	720531	DATE	720809
SRVY	90	SHVY		3944		SRVY	94	SRVV	95	SRVY		9844		SRVY	98
TIME	1200		1200	TIME	1500	TIME	1200	TIME	1200	TIME	1200		1200	*I~E	
	*****		*****		*****					***	*****		*****		
198.00	15.50	180.00	14.90	150.00	12.60	151.00	12.50	150.00	12.60	153.00	13.10	138.00	12.20	139.00	12.20
210.00	11.80	209.00	12.30	180.00	14.80	183.00	14.60	183.00	14.60	181.00		160.00	14.30	151.00	13.20
559.00	10.40	247.00	9.10	200.00	13.00	185.00	12.50	189.00	11.40	191.00	11-10	171.00	14.30	169.00	14.00
281.00	6.70	296.00	5.20	209.00	11.40	190.00	11,40	210.00	8,40	237.00	7.20	184.00	13.70	185.00	14.90
335.00	4.60	309.00	5.30	239.00	7.90	510.00	7.50	251.00	9.70	280.00	4.50	190.00	11.50	191.00	
398.00	1.90	337.00	E-60	277.00	5.10	248.00	5.50	290.00	3.70	303.00	3.50	235.00	A.60	554.00	9.30
495.00	- 3 - 50	367.00	2.80	329.00	2.90	279.00	0.40	335.00	5.50	319.00	4.40	292.00	7.20	594.00	7.50
520.00	-5.00	469.00	.Bn	424.00	2.00 .70	311.00	3.40	372.00	1.00	361.00	4.90	362.00	6.40	306.00	7.00 8.70
		499.00	-8.2n			363.00	2.30	300.00	.10	401.00	1.60	455.00	1.80	391.00	3.70
		444800		804000	-010	389.00	=.10			421.00	60	470.00	30	421.00	1.40
							-,,,			-21400	- 000	4,0000	- 4 - 0	446.00	-,50
								LE 10							
0175	721003	0476	721205		730103		730206	0.00	730213		730316		730324		730403
SRVY	99		100		101		102		103		104		105		106
	1200		1200		1200		1200		1200		1200		1200		1200
			*****				*****		*****						
136.00	12.40	183.00	10.10	182.00	16.80	179.00	16.80	184.00	16.40	182.00	16.50	180.00	10.70	178.00	10.80
150.00	16.40	190.00		188.00	13.70	189.00	13.00	190.00	13.50	191.00	13.10	184.00	13.60	189.00	12.90
181.00	16.40	200+00		199.00	12.10	217.00	9.70	197-00	12.60	202.00	11.70	192.00	12.30	193.00	12.80
188.00	12.30	244.00	8.60	253.00	7.80	264.00	6.30	204.00	11.80	203.00	10.00	223.00	8.30	204.00	10.50
230.00	8.80	286.00	5.50	303.00	4.10	302.00	5.60	205.00	10.20	236.00	7.40	255.00	05.0	248.00	7.30
284.00	6.60	334.00	3.20	348.00	5.50	356 . 00	2.10	251.00	5,60	283.00	4.80	264.00	5.70	295,00	4.90
356.00	8.00	374 - 00	1 + 60	398.00	.80	407.00	10	299.00	1.90	308.00	4.50	277.00	5.10	343.00	2.50
363.00	4 . PO	013.00	+20	445.00	10	464.00	-1.20			341,00	1.70	289.00	0.40	373.00	.80
413.00	2.70	429.00	*.50	493.00	-1.60					385.00	0.00	313.00	5.40	377.00	10
458.00	70	445.00	-:60							426.00	70				
475.00	-1.60									45R.00	50				
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DATE 621011	DATE 621029	DATE 621208	DATE 630107	11WE 1500	DATE 630207	DATE 630221	DATE 630312
SRVY I	SRVY E	SRVY II	SHVY 4	SDAA H	BRVY B	SRVY 7	SRVY 8
TIME 1200	TIME 1200	TIME 1200	TIME 1200	DTE 920153	TIME 1200	TIME 1200	TIME 1200
120.00 11.10 155.00 22.90 124.00 22.90 179.00 22.90 202.00 12.60 216.00 11.40 265.00 6.60 333.00 6.60 337.00 6.30 337.00 6.30 428.00 1.80 428.00 1.80	164.00 21.10 177.00 22.10 201.00 13.40 266.00 6.40 349.00 7.50 370.00 7.60 418.00 28.30 428.00 0.00	121.00 11.20	0.00 6.10 97.00 7.20 158.00 23.50 107.00 14.00 233.00 9.70 233.00 7.60 336.00 7.80 360.00 4.70 416.00 1.80	0.00 6.00 03.00 6.00 98.00 7.00 159.00 23.40 216.00 10.70 216.00 7.60 2378.00 7.60 335.00 6.10 438.00 0.00	217.00 10.60 258.00 8.50 304.00 8.10 344.00 8.30 361.00 8.70 414.00 4.40 445.00 1.50	153.00 24.00 114.00 21.00 12.00 15.70 257.00 4.50 376.00 6.50 376.	143.00 23.90 159.00 21.90 139.00 22.20 139.00 139.00 23.20 139.00 23.20 139.00 23.20 139.00 4.50 20.20 139.00 4.50 20.20 139.00 4.50 20.20 139.00 4.50 20.20 139.00 4.50 20.20 139.00 4.50 20.20 139.00 4.50

SHVY	1200	DATE SRVY TIME	1200	TIME	630424 11 1200	3 H V Y	630509	SRVY	630617 13 1200	SHVY	630710 14 1200	SRVV	630813 15 1200	3+44 11=6	630925 16 1200
149.00 159.00 140.00 235.00 258.00 333.00 352.00 400.00	23.30 22.30 15.20 11.90 9.20 8.40 7.40 4.40 2.80	194,00 205,00 220.06 281.00 327.00 397.00 434.00 471.00 503.00	15.00 12.40 10.10 8.20 8.50 6.60 0.00	165.00 182.00 205.00 240.00 341.00 341.00 478.00 478.00 573.00 573.00 573.00 573.00	25.70 12.50 9.40 7.90 8.50 7.20 1.10 .20	174.00 206.00 243.00 264.00 353.00 401.00 439.00 475.00 485.00	22.40 12.50 8.60 7.80 8.00 7.60 6.00 2.90	101.00 101.00 202.00 202.00 202.00 350.00 394.00 434.00	27.70 14.30 10.60 8.00 6.60 6.70	180.00 207.00 240.00 280.00 350.00 379.00 448.00 504.00	20:80 12:60 9:70 8:10 6:30 7:60 7:70	100000 212000 24300 26900 351000 40000 50000	21.40 18.50 12.50 9.50 8.10 8.20 7.80 0.00	176.00 213.00 240.00 252.00 322.00 344.00 356.00 420.00 451.00	21.50 12.60 9.30 6.40 6.00 6.30 8.30 8.30 7.10 5.40 2.50
							PROF1	LE 11							
5 R V Y	631030 17 1200	9444	631101 1A 1200	89 V Y T I H F	631115 19 1200	TIME	640108 20 1200	SRVY	640121 21 1200	TIME	1500	EBUV	640511 23 1200	TIME	640713 24 1200
171+00 210+00 259+00 310+00 390+00 390+00 451+00 501+00	22.90 11.20 6.20 6.10 6.50 6.20 6.00 2.10	170-00 216-00 260-00 315-00 354-00 399-00 451-00 502-00	22.99 10.91 8.90 8.90 8.90 2.10	204+00 215+00 269+00 319+00 411+00 454+00	13.20 11.80 6.50 6.90 5.50 2.10	165:00 180:00 209:00 261:00 310:00 369:00 420:00 440:00	23.50 22.90 13.30 8.30 6.30 6.30 1.70 1.10	172.00 217.00 255.00 340.00 357.00	22.40 11.80 9.40 3.70 2.10	147.00 179.00 216.00 253.00 326.00 370.00 430.00	21.70 23.20 11.80 8.60 4.20 2.60 .90	140.00 161.00 175.00 197.00 239.00 276.00 308.00 344.00 386.00	21.10 23.80 21.70 14.50 9.50 8.10 7.30 8.00 .80	181.00 215.00 253.00 313.00 357.00 379.00 409.00	21.40 11.90 8.30 8.90 7.00 4.60 2.90
							PROFI	LE 11							
SRVY TIME	25 1200	3RVY 71™£	641105 26 1200	SRVY Tîmp	650218 27 1200	8 H V Y	650412 2A 1200	5pvy Time		SHVY	1200	38 V V	500 31 1200	SRVV TIME	32 1200
160.00 189.00 210.00 245.00 278.00 314.00 352.00	23.70 19.30 13.10 9.70 10.70 11.00 6.00	160.00 180.00 217.00 262.00 293.00 342.00 364.00 373.00	23.30 22.10 12.00 7.70 5.70 7.20 4.40 3.80	152:00 171:00 253:00 298:00 351:00 426:00	23:00 21:00 8:50 7:40 2:10 1:50	165.00 219.00 289.00 317.00 375.00	22.70 12.20 6.00 6.90 1.80	164.00 192.00 215.00 265.00 334.00 379.00 432.00 472.00	23.00 19.80 14.00 8.70 7.90 4.20 .90	159.00 184.00 216.00 266.00 340.00 369.00 408.00	23=00 19+50 12+50 8+10 8+30 5+90 1+90	175.00 208.00 246.00 296.00	22.40 14.00 9.40 5.40	212.00	23 • 10 13 • 10 8 • 40 7 • 80 4 • 50
							PROFI	LE 11							
SRVY	660620 33 1200	BRVY	660A30 34 1200	BRVV	670115 35 1200	SRVY	670215 36 1200	SRVY	670501 37 1200	8RVY	670726 38 1200	SRVY	670921 39 1200	9877	671107 49 1200
165.00 228.00 261.00 326.00 357.00	24.00 10.90 8.00 9.10 3.00	150.00 203.00 225.00 249.00 319.00 342.00 392.00	22.70 10.50 7.50 0.70 0.90 7.50 1.00	179.60 219.00 265.00 312.00 351.00	22.50 12.70 8.60 6.30 1.40	174.00 215.00 286.00 337.00	72.10 14.60 5.60 3.00	177.00 213.00 283.00 311.00	23,70 13,90 5,60 4,90	175.00 231.00 276.00 316.00 349.00	21.90 11.70 7.60 7.80 2.60	179.00 232.00 266.00 302.00 319.00	22.00 11.80 9.30 8.40 -5.10	178.00 227.00 261.00 263.00 302.00 319.00	21.70 11.80 9.80 8.40 3.80 3.80
							PROFI	LE 11							
DATE SRVY TIME	671206 41 1200	DATE SRVY TIME		DATF SRVY TIME	680111	SHVY	680118	SRVV TIME		TIME	680131 46 1200	3PVV T1ME		TIME	08021# #8 1200
177.00 257.00 307.00 354.00 405.00 459.00	27.40 10.00 6.10 5.70 1.40	95.00 158.00 166.00 174.00 201.00 201.00 300.00 337.00 338.00	7.40 18.80 22.00 15.70 6.20 6.30 2.90 2.90	157.00 165.00 173.00 165.00 209.00 255.00 310.00 355.00 366.00	17.90 15.50 21.90 18.30 14.30 5.90 .50	157.00 174.00 190.00 221.00 239.00 276.00 301.00	17.70 21.80 17.20 12.40 10.80 6.80 6.40 4.80	175.00 190.00 214.00 236.00 275.00 301.00 350.00 360.00	21.90 17.80 13.40 10.70 8.30 6.40 .50	158.00 167.00 176.00 193.00 217.00 240.00 260.00 278.00 300.00 336.00	17.50 18.50 22:10 17.30 12:90 10:30 7.90 4.10	164.00 177.00 272.00 274.00 272.00 272.00 290.00 309.00 350.00	19-40 21-90 15-60 11-50 8-40 6-70 6-90 1-20	170.00 179.00 204.00 242.00 286.00 304.00 320.00 335.00 345.00	19.00 21.90 15.30 10.40 6.00 6.00 6.00 6.00 6.00

							•••••								
TIME	680220 49 1200	TIME	680228 50 1200	SRVY	680306 51 1200	DATE SRVY TIME	680319 57 1200	11w6	1200	3844 †1≈€	640327 54 1200	5RV¥ TI™E	661119 55 1200	TIME	690117 56 1200
170.00 177.00 203.00 233.00 277.00 290.00 323.00 339.00	18 a 70 d 1 a 40 15 a 70 11 a 50 70 3 a 80 1 a 20	169.00 177.00 193.00 214.00 229.00 269.00 307.00 3338.00	21.70 16.40 13.80 11.80 9.40 7.10 3.40	169:00 178:00 199:00 259:00 259:00 391:00 351:00 366:00	21.80 16.50 12.20 8.70 5.70 6.20 2.00	169,00 176:00 194:00 216:00 255:00 356:00	21.70 16.80 12.90	169.00 176.00 213.00 235.00 275.00 300.00 336.00	21.70 14.00 10.70 7.60 7.20	170.00 179.00 195.00 218.00 204.00 313.00 359.00	21.70 16.20 12.60 5.90 5.30	96.00 137.00 182.00 192.00 25.00 25.00 25.00 314.00 334.00 350.00 376.00	7.70 14.40 19.20 16.40 12.00 9.30 8.30 3.50 1.20 0.00 -2.20	122.00 175.00 225.00 307.00 387.00 403.00	9:70 18:30 10:90 7:20 2:70 :60
							P#OF]	LE 11							
3RVY TIME	690129 57 1200	##¥4	59021% 59 1200	SRVY		TIME	61 1200	Sovy	620010	89 V Y	690314	39 V Y	1200	DATE SHVY TIME	690618 65 1200
172.00 184.00 224.00 276.00 377.00 411.00	16.60 16.50 11.10 6.90 7.60 2.50 1.60	172.00 215.00 253.00 292.00 319.00 349.00 361.00	11.3n 9.20 9.4n 9.2n 8.30	90.00 172:00 221:00 251:00 284:00 310:00 372:00	16.60 11.40 10.50 9.40 7.10	172.00 179.00 222.00 290.00 340.00 400.00	16.70 11.00 10.30 6.60	172.00 222.00 272.00 312.00 371.00 431.00	11.10 10.60 7.20 .60	172,00 176,00 220,00 252,00 252,00 374,00 444,00 492,00 567,00 622,00	15.80 11.30 10.40 10.30 6.20 .70 -2.40 -5.50	138.00 172.00 190.00 274.00 252.00	50	76.00 134.00 170.00 203.00 252.00 284.00 339.00 381.00 455.00 550.00	9.70 6.70 6.90 2.70
							PROF1	LE 11							
SRVY TIME	690918	TIME	691125 67 1200	SPVV	691220	3HVV TI≃E	700115	DATE SRVV TIME		3844	700129 71 1200	TIME	700211 72 1200	SRVY	700218 73 1200
170.00 212.00 265.00 294.00 394.00 455.00 455.00 512.00 529.00	16.00 11.00 10.30 8.00 7.90 8.20 6.90 2.90 1.40	171.00 205.00 245.00 300.00 347.00 408.00 439.00 445.00 499.00 600.00 625.00	15.70 12.50 9.40 9.40 9.10 7.40 7.90 5.80 -1.70 e2.30	472.00	15.40 10.40 9.30 8.80 6.50 1.70 9.60	190.00 237.00 282.00 320.00 362.00 402.00 458.00 545.00 605.00	14.30 10.50 9.20 7.00 7.50 4.70 2.00 40	190.00 240.00 240.00 324.00 324.00 432.00 463.00 512.00 500.00	14.30 15.70 10.40 9.00 7.00 7.10 2.80 3.00 .80 .80	173.00 190.00 219.00 266.00 302.00 423.00 436.00 457.00 584.00	15.10 14.30 11.40 9.60 8.00 7.30 3.40 2.70 2.70 2.70	172.00 215.00 242.00 285.00 330.00 420.00 420.00 577.00	15.00 11.70 12.50 8.50 7.50 3.00 .90	176.00 209.00 237.00 274.00 337.00 395.00 477.00 314.00	14.60 11.80 10.80 9.10 5.80 2.80 0.00
							PROFIL								
DATE 7 8RVY TIME	74 1200	84 V Y	700305 75 1200	TIME	700512 76 1200	9HVY T1ME	70031A 77 1200	3 R V Y	700507 78 1200	SRVY TIME	700812 79 1200	DATE SRVY TIME	700930 80 1200	DATE SHVY TIME	81
	13.80 11.30 9.80 7.40 5.00 2.30 0.00 =.90	170.00 213.00 252.00 294.00 367.00 452.00 542.00	14.90 11.40 9.70 7.60 4.90 2.50	174 = 0 0 212 = 0 0 257 = 0 0 306 = 0 0 359 = 0 0 401 = 0 0 477 = 0 0 505 = 0 0 519 = 0 0 540 = 0 0	9.60 7.30 7.50 3.60 2.10 .30 .60	174.00 222.00 263.00 305.00 305.00 413.00 448.00 485.00 522.00 553.00	11.00 9.50 7.30 7.00 5.60 2.00 1.20	174.00 230.00 268.00 330.00 368.00 410.00 458.00 485.00 510.00 530.00	13.80 10.80 9.20 6.90 5.50 6.20 4.70 3.20 .30	177.00 208.00 241.00 268.00 338.00 438.00 476.00 498.00 528.00 588.00	12.80 10.30 8.30 7.50 8.00 8.00 3.70	171.00 277.00 275.00 325.00 372.00 422.00 497.00 492.00 507.00 523.00	11.00 7.30 7.90 8.70 7.80 3.60 1.00	207.00 250.00 267.00 326.00 362.00 417.00 467.00 507.00	15:79 14:30 11:90 6:90 8:50 7:70 8:10 2:10 1:40 =:80

SRVY TIME	701218 82 1200	SRVY TIME	710106 83 1200	DATE SRVY TIME	710212 84 1200	DATE SHVY TIME		DATE SRVV TIME	710408 86 1200	DATE SRVY TIME	710604 87 1200	OATE SRVV TIME		DATE SHVY TIME	711008 89 1200
169 • 00 207 • 00 244 • 00 297 • 00 357 • 00 442 • 00 457 • 00 537 • 00	15.40 11.70 10.10 7.60	169*00 237*00 237*00 277*00 329*00 369*00 437*00 461*00		167-00 267-00 367-00 367-00 49-00 460-00 527-00 578-00 617-00	15.30 11.80 9.20 7.40 5.60 2.30 1.70 1.10 .20 70	169-00 192-00 207-00 249-00 249-00 396-00 396-00 508-00 549-00	15.00 12.20 11.40 9.10 7.80 5.50 3.50	170.00 192.00 260.00 315.00 387.00 428.00 521.00 551.00		164-00 207-00 257-70 297-00 334-00 377-00 427-00 452-00 467-00	14.60 9.00 7.60 6.10 7.00 7.70 2.20 -30 -1.85	162.00 192.00 269.00 310.00 372.00 423.00 433.00 463.00 463.00	14.00 12.60 11.30 9.00 8.10 8.20 6.40 6.00 5.20 3.00	109.00 192.00 204.00 259.00 297.00 347.00 400.00 427.00 428.00 400.00 524.00	14-10 12-80 11-80 6-90 7-70 6-50 9-50 9-50 1-90 2-90 6-80

PROFILE 11

DATE	711201	DATE	720103	DATE	720131	DATE	720205	DATE	720272	DATE	720301	CATE	720328	DATE	P720531
SHYY	9.0	SHVY	9.1	SRVY	9.2	SRVY	93	SPVY	94	SHVY	95	SRVY	96	3RVY	97
TIME	1200														
			******					****							
								-,							
164.00	15.20	162.00	15.60	163.00	15.20	192.00	12.40	165.00	15.30	167.00	15.50	168.00	15.40	157.00	15.00
192.00		192.00		181.00		232.00	9.90	192.00		182.00	13.50	102.00	12,90	107.00	15.70
256.00	9.00	240.00		192.00		285.00	9,40	211.00	11.40	192.00	12.90	255.00	9,40	192.00	12.90
307.00		305.00		250.00	9.00	337.00	0.50	251.00		217.00	11.20	337.00	6.60	211.00	11.50
367.00	9.10	373.00		292.00	7.80	393.00	5.60	292.00	7.70	258.00	9.10	422.00	4.80	257.00	9.10
427.00	5.70	453.00		338.00		452.00	3.80	364.00	9.20	292.00	7.70	481.00	3,60	315.00	7.10
487.00	5.40	511+00		411=07		502.00	2.50	424.00	3.40	358.00	5.60	542.00	4.80	364.00	7 = 40
552.00	.70	555.00		441.00	6.90	537.00	1.60	445.00		409.00	4.50	582.00	1 = 40	417.00	8-10
617.00	20	584.00	50	488-00	. 90	557.00	1 - 00	562.00	1.50	459.00	3.10	612.00	10	470.00	6.00
662.00	-2.40			531-00	-,30			584.00	.30	514.00	2.40	632.00	90	492.00	5.80
				569-00	70					578.00	1.00			524.00	3 - 40
				601.00						392.00	1.00			639.00	2.40
				9.1.00	-1:00										
										613.00	20			669.00	1 = 20
														692.00	* 60
														717-00	50

PROFILE 11

DATE BRVY TIME	720809 98 1200	DATE SHVY TIME		5RVY TIME			730206 102 1200	Date Sevy Tire	730213 103 1200	OATE SRVY TIME	730316 104 1200	DATE BRVV TIME		DATE SRVY TIME	730403 106 1200	
139.00	12.20	171.00	16.00	170-00	15.70	171.00	15,80	174.00	16.00	174.00	15.30	174.00	16.20	174.00	16.30	
		181.00		186.00			12.80			183.00	13.60	183.00		167.00	12.40	
		192.00		192.00		192.00				230.00	11.00	192.00		192.00	12.60	
		217.00		229.00	11.00	556.00			12.60	240.00	12.50	204.00		232.00	11-10	
		237.00		240.00		234.00	12.50	252.00	10.80	247.00	11.00	232.00	11.10		12.70	
		295+00		244.00	10.10	287.00		267.00	10.00	292.00	7.50	240.00	12.90	248.00	11.60	
		341:00	10.10	302.00	10.70	344.00	6.10	324.00	4.80	332.00	9.00	245.00	10.40	297.00	5.80	
		368.00	9.70	372.00	5.70	403.00	2.90	369.00	1.80	372.00	3.20	274.00	7,40	344.00	3.30	
		399.00	5.50	433.00	3.20	456+00	.70	199.00	.80	400.00	2.40	302.00	4.20	377.00	2.50	
		432.00		497.00	1.00	512.00	0.70			432.00	2.60	312.00	3 - 20	402.00	1.20	
		457.00		572.00	= 460					477.00	.50	312111		437.00	30	
		470.00		3.5400	100					502.00	80					
		483.00	0.00							532.00	-1.50					

	DATE	730612	DATE	730911	DATE	731219
	SRVY	107	SRVY	108	SRVY	109
	TIME	1200	TIME	1200	TIME	1500
	-					
17	1.00	15.90	171.00	15.60	173-00	15.80
19	2.00	12.70	185.00	13.00	193.00	12.70
21	8.00	11-10	193.00	12.60	220-00	11:40
23	7.00	12.70	231.00	11.10	239-00	12.70
26	0.00	8.40	234.00	12.40	275.00	9.00
31	7.00	6.30	262.00	8.40	313-00	5.70
36	7.00	5.00	294.00	6.90	353.00	3 . 50
41	7.00	3.40	341.00	8.00	393.00	1 . 70
46	4.00	.80	393.00	9.00	433-00	.30
4.8	7.00	= = 10	423.00	5.00	473.00	-1.60
50	1.00	50	463.00	80		
			494.60	=2.80		

TIME	7208n9 93 1200	DATE SRVY TIME	721003 99 1200	DATE BRVY TIMF	721205 100 1200	DATE BHVY TIME		DATE SQVY TIME	730206 102 1200	DATE SRVY TIME	730213 103 1200	DATE SRVY TIME	730316 104 1200	DATE SRVY TIME	730324 105 1200
212.00 254.00 253.00 260.00 327.00 410.00 400.00 510.00 552.00 620.00	16.50 15.50 17.40 16.20 12.20 12.30 11.70 9.80 9.80 9.70 .50	174.00 184.00 212.00 239.00 254.00 254.00 297.00 358.00 429.00 459.00 507.00 501.00 647.00 647.00 647.00	13.40 10.60 17.30 12.60 12.60 12.60 11.60	212.00 275.00 322.00 359.00 401.00 429.00 480.00 518.00 528.00 608.00 668.00	16.60 14.80 13.20 12.30 12.40 12.90 11.70 4.30 1.60 50	212.00 240.00 257.00 357.00 357.00 429.00 472.00 517.00 517.00 617.00 617.00	16.60 15.50 17.30 12.60 12.40 12.70 10.70 6.50 2.80 1.40 0.50 2.80	285.00 325.00 369.00 430.00 469.00 513.00 643.00	13.40 12.90 12.30 13.10 10.60 7.80 7.80 2.40	212.00 250.00 297.00 341.00 362.00 440.00 534.00 534.00 575.00 710.00 764.00	16.50 16.80 12.70 12.30 11.90 9.70 4.30 2.10	231.00 253.00 275.00 275.00 339.00 405.00 504.00 504.00 507.00 617.00 617.00 617.00 617.00 705.00 742.00	15.60 17.40 12.50 12.50 12.30 12.30 12.30 5.50 6.60 7.50 6.60 6.00	210.00 236.00 250.00 310.00 310.00 347.00 429.00 460.00 548.00 600.00	16.60 15.60 16.40 14.90 13.30 12.30 12.30 12.30 10.10 7.40 4.60 2.20

PROFILE 12

DATE	730405	DATE	730612	DATE	730911	DATE	731219
SPVY	106	SHVY	107	SRVY	108	SHVY	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
				****			
212.00	16.90	297.00	12.50	212.00	16.00	287:00	13.10
240.00	15.60	362:00	18.10	253.00	17.40	349.00	12.30
244.00	17.40	379.00	12.80	281.00	13.00	382.00	13.00
279.00	14.10	419.00	12.90	296.00	12.60	427.00	12.60
319.00	12.80	439.00	10.80	349.00	12.10	467.00	10.50
354-00	12.30	506.00	7.80	391.00	13.40	502.00	9.50
397.00	13.20	573+00	9.60	429.00	12.90	542.00	6.80
444.00	11.00	584.00	8.00	441.00	11.10	577 400	5.00
479.00	8,90	593.00	7.90	497.00	6.10	627.00	2.30
529.00	7.20	597.00	6.00	539.00	9.40	657.00	.90
					10.00	699.00	- 90
580.00	6.00	615.00	2.80	564.00		044100	
631.00	4.30	639.00	70	571.00	9.00		
685.00	5.00	655.00	-1.40	591.00	9.00		
729.00	60			596.01	9.00		
744.00	-1.80			600.00	5.90		
				634.00	.90		
				663.00	-2.00		

DATE	7208n9	DATE SHV/	721003	341F	721205	STAC	730103	DATE SRYY	730206	DATE	730213	04TE	730316	DATE	730324
TIHE		TIME		TIME	1200	TIME	1200	TIME		TIME	1200	TTME	1200	TIME	1200
	*****		*****		*****				*****				*****		
222.00 224.00 248.00 255.00 277.00 305.00 427.00 427.00 427.00 579.00 579.00	20.60 23.50 21.70 12.60 12.20 9.50 11.70 10.50 10.20 9.70 7.60 8.50	230 + 00 244 + 00 258 + 00 276 + 00 309 + 00 350 + 00 427 + 00 466 + 00 550 + 00 595 + 00 596 + 00 596 + 00 596 + 00 596 + 00	23.50 23.70 21.90 11.90 10.50 10.50 10.50 10.50 5.70 8.70	272.00 305.00 345.00 345.00 427.00 465.00 550.00 597.00 627.00 697.00		266:00 296:00 333:00 386:00 41R:00 494:00 543:00 543:00 650:00 718:00	13,50		12.80 11.00 10.80 13.30 11.10 10.60 7.90 7.80 3.30	202.00 309.00 344.00 402.00 446.00 514.00 562.00 611.00 672.00 743.00 814.00	12.40 10.40 13.20 11.30 10.00 6.10 3.20 1.50	276.00 292.00 308.00 327.00 402.00 430.00 470.00 510.00 543.00 543.00 543.00 543.00	13.40 11.90 17.20 5.90 11.20 11.20 11.20 10.40 7.90 5.30 3.60	281.00 323.00 384.00 402.00 436.00 511.00 567.00 605.00 656.00	12.00 11.10 12.70 13.30 11.40 11.10 10.20 5.40 2.40
769.00		641.00 679.00 749.00	5.30									732.00	80		

SRVY TIME	730403 106 11.70 11.70 10.80 10.80 10.80 13.80 11.60 10.90 9.70 9.70 3.10 1.70 	DATE SRVY TIML 263.00 308.00 344.00 344.00 431.00 528.00 552.00 556.00 656.00 656.00 706.00 727.00	730617 107 1200 1200 12:50 10:50 13:50 13:70 9:30 6:30 6:00 6:00 6:00 6:00	DATE SPVT TIME 280.00 294.00 307.00 317.00 317.00 340.00 417.00 417.00 417.00 617.00 617.00 617.00 617.00	730911 108 1200 11.80 11.80 11.70 11.70 11.70 11.70 11.70 11.70 10.70 10.70 7.20 8.50 7.50 7.50	DATE SHVY TIME 279-0 304-00 346-00 49-00 474-00 509-00 504-00 604-00 654-00 712-00	731219 109 1200 12.70 12.70 12.20 10.30 12.20 11.70 10.60 6.70 2.80 -40
				640.00	-1.10		

PROFILE 14

DATE	720809	DATE	7210031	DATE	721205	DATE	730103	DATE	730206	DATE	730213	0475	750316	DATE	730324
SRVY	98	SRVY	99	SRVY			101	SRVV		SRVY			104	SRVV	105
TIME	1200	TIME	1200	TIME	1200		1200	TIME		TIME	1200	TIME		TIME	1200
									*****						
177.00	13.10	218.00	21.20	268.00	13.70	266.00	14.20	287.00	11.80	279.00	12.30	270.00	13.60	279.00	12.70
215.00	21.20	229.00		292.00	12.00	290.00	11.60	300.00		306.00	12.30	287.00	11.90	300.00	12.20
225.00	23.00	244.00	22.50	315.00	11.60	300.00		332.00		334.00	6.70	303.00	12.30	318.00	10.40
241-00	23.00	251.00	20.90	328.00	8.80	353.00	8.60	365.00	10.70	378.00	10.90	328.00	8.70	336.00	8,50
265.00	14.20	263.00		348-00	9.60	373.00	10.60	418.00	11.50	418.00	11.50	350.00	10.70	365.00	10.40
300.00	12.00	292.00	11.60	379.00	11.00	418.00	11.50	469.00	11.20	464.00	11.50	358.00	11.50	384.00	11.20
335.00	8.30	306.00		418.00	11.30	463.00	11.30	521.00	10.40	501.00	8.60	417.00	11.60	418.00	11.40
365.00	10.40	335.00	8.40	466.00	11-10	508.00	11.20	563.00	8.50	552.00	4.50	454.00	11.50	447.00	11.40
418.00	10.80	368.00	10.40	510.00	11.40	950.00	7.50	615.00	8.60	603.00	1.60	483.00	10.60	485.00	10.40
465.00	10-40	418.00	10.90	570.00	11.20	593.00	5.00	666.00	2.50	663.00	.40	524.00	7.40	513.00	8.40
550.00	10.30	455+00	10,50	593.00	7.20	635.00	3.70	693.00	.40	708.00	-1.00	568.00	A . 20	558.00	5.30
580.00	9.30	494.00	9.70	00.150	3.50	698.00	1.70	709.00	50	,00800	-1400	603.00	9.80	600.00	3.10
618.00	10.30	549.00	10.60	668-00	- 20	714.00	-1.00		-830			638,00	3.10	640.00	2.00
654.00	5.40	550.00	8,90	683.00	40		-1000					687.00	.00	040.00	2400
688,00	.70	560.00	7.90	03800								719.00	-1.00		
710.00	-2.60	573.0C	6.80									7 1 M 0 0 0	-1.00		
		605.00	8.40												
		646.00	2.90												
		671.00	-1.70												
		071000	-1.70												

DATE	730403	DATE	730612	DATE	730911	DATE	731219
SRVY	106	SRVY	107	SRVV	108	SKVY	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
			*****				
278.00	12.50	277.00	12.50	291-00	11.50	263.00.	14.80
301.00	12.80	308.00	12.80	308.00	12.10	296:00	11.70
330.00	8.90	339.00	9.00	326.00	8.60	308.00	12.20
363.00	10.80	372.00	11+10	348.00	10.80	333.00	8.60
418.00	9.60	429.00	11.20	408-00	12.10	361.00	10.60
453.00	9.30	463.00	11.10	446-00	11.20	418.00	12.00
463-00	10.50	488.00	10.40	487.00	9,70	478.00	11.20
530.00	8.10	534.00	8.10	520.00	7.80	520.00	11.40
573.00	3.50	583.00	5.60	560.00	9.60	558.00	11.30
618.00	3.50	61 F . DO	3,40	585.00	10.30	582.00	9.30
685.00	2.10	685.00	1.70	396.00	8,30	61R.00	6.70
736.00	1.10	741.00	.60	00.850	9.50	653.00	6.30
768.00	0.50	784.00	-,60	636.00	8.40	688.00	3.40
				638.00	6.70	726.00	50
				671.00	5.50	750.00	-1.00
				700.00	-1.00		

DATE	720809	DATE	721003	DATE	721205	DATE	730103	DATE	730206	DATE	730213	DATE	730316	DATE	730344
SHVY	9.8	SRVY	9.9	9844	100	SHVY		SRVY	102	SRVY		SRVY	104	SAVY	105
TIME		TIME		TIME	1200	TIME		TIME	1200	TIME		TIME	1500	71"E	1200
			*****												
															•
199.00	14.20	235.00	21.40	279,00	15.50	289.00	13.30	293.00	13.10	290.00	13.20	290.00	13.70	288.00	13.50
235.00	21.40	247.00	51.50	311.00	12.90	319.00	12.10	328.00	11.40	327.00	11.40	310.00	12.90	311.00	12.80
260.00	21.20	261.00	21.00	334.00	10.60	341.00	10.20	369.00	11.20	369.00	11.10	334.00	10.50	329.00	11.00
288.00	13.90	266.00	18,90	349.00	11.20	369.00	11.00	395,00	12.40	392.00	12.20	369.00	11.20	352.00	10.30
310.00	12.70	292.00	13.20	394.00	12.40	417.00	11.00	439.00	11.10	440.00	11.00	393.00	13,40	379.00	11.50
346.00	10.00	309.00	13.00	409.00	11.50	467.00	10.30	485.00	10,90	480.00	10.70	427.00	11.00	390.00	12.70
369.00	11.00	369.00	10.90	471.00	11 - 10	514.00	10.50	541.00	11.30	528.00	11+10	471 - 00	10.00	427.00	11.00
415.00	11-10	401.00	11.30	525.00	10.70	574.00	11.40	584.00	11.10	589,00	10.80	500.00	10.80	461.00	10.90
475.00	10.20	445.00	11.20	569.00	11.70	609.00	7.90	632.00	6.10	634,00	7.60	535.00	11-10	497,00	11-10
515.00	9.50	492.00	9.40	604.00	11.80	639.00	7.80	661.00	2,30	686.00	3.80	595.00	10.80	549.00	11.40
565.00	9.40	541.00	9.70	637.00	6.80	684.00	3.60	710.00	9.50	746.00	2.40	617.00	9.00	582.00	8.00
605.00	9.30	603.00	9.50	669.00	3.70	729.00	.20			602.00	.00	653.00	8.60	614,00	5.70
645.00	3.50	618.00	9,40	721.00	1.20	759.00	-1.80			826.00	90	685.00	6 - 40	663.00	3.30
665.00	-10	619.00	8,70	739.00	.30							727-00	2.90	722.00	2.20
675.00	4.60	629.00	7.80	761.00	30							760.00	.70		
		676.00	7,90									789.00	90		
		717.00	3.30												
		747.00	=1.90												

PROFILE 15

DATE	730403	DATE	730612	DATE	730911	DATE	731219
SRVY	106	SHVY	107	SRVY	108	9 × V Y	109
TIME	1200	TIME	1200	TIME	1200	71 ME	1200
291.00	13-10	294.00	13.00	297.00	13.20	282.00	14.20
310.00	12.30	309.00	12.90	317.00	12.70	309.00	13.20
343.00	10.40	345.00	10.20	341.00	10.60	334.00	10.90
369.00	11.30	387.00	12.60	349.00	11.30	369.00	11.30
400.00	9.70	454.00	10.80	349.01	12.60	392.00	12.80
449.00	10.90	482.00	10.80	417.00	11:10	417.00	11.00
00.00	11.00	544.00	10.80	445.00	10.90	469.00	10.90
551.00	11 - 10	584.00	8.90	505.00	10.90	517.00	11.00
589.00	8.30	632.00	10.10	546.00	10.70	559.00	11.10
631 - 00	6.40	639.00	10.20	579.00	9.20	595.00	11.10
583.00	4.90	644.00	0.00	605.00	10.40	629.00	10.40
743.00	2.20	660.00	2.90	63A.00	10.20	659.00	7.40
183.00	0.00	674.00	.60	645.00	6.70	709.00	5.40
799.00	-1.00	68A.00	30	665.00	2.30	732.00	2.80
				693.00	-1.30	769.00	-,40
						787.00	e,80

DATE	720809	DATE	721003	DATE	721205	DATE	730103	DATE	730206	DATE	730213	DATE	730316	DATE	730324
SRVY	9.6	SHVY	9.9	SPVY	100	SHVY	101	SRVY	102	SRVY	103	SRVY	104	SRVY	105
TIME	1200	TIME	1600	TIME	1500	TIME	1200	TIME	1200	TIME	1200	TIME	1500	TIME	1200
			*****	11-6			2200	2000							
203.00	12.50	199.00	18.20	273.00	15.40	306.00	11.30	327.00	10.30	299.00	11.80	295.00	12:30	297,00	11.70
223.00	10.70	225.00	17.20	309.00	10.50	333.00	10.50	364.00	10.10	317.00	10.40	319.00	10.30	316.00	10-20
259.00	19.80	255.00	19.10	339.00	11.40	348.00	11.20	400-00	10.10	341.00	11.70	340.00	11.50	345.00	11.20
300.00	11.60	268.00		342.00	9,90	366.00	9.90	438.00	10.30	384.00	10.10	364.00	10.20	365.00	9.90
340-00	11.10	306.00	10.80	43A.00	10.50	398:00	10-00	484.00	10.20	438.00	10-10	398.00	10.00	402.00	10.10
348.00	10.20	338.00	11.00	491.00	9.70	438.00	10.30	527.00	9.10	480,00	10.20	43F.00	10.20	43A.00	10.30
440.00	9.90	395.00		533.00	8,60	487.00	10.00	571.00	7.20	527.00	9.30	446.00	9,90	459.00	10.30
497.00	8.00	438,00		580.00	6.80	530.00	9.20	630.00	6.50	575.00	6.90	527.00	9.20	495.00	10.30
542.00	6.70	487.00		618-00	4.90	570.00	8,50	682.00	1.60	632.00	A.80	579.00	7.20	534,00	8.70
594.00	6.10	546.00		656.00	3.20	618.00	5-10	722.00	=.10	684.00	1.80	617.00	4.90	579.00	6.30
												660.00		631.00	3.60
657.00	0.10	58A . 00		671.00	2.40	663.00	1.90	742.00	-1.20	749.00	0.00		2.60		
677.00	.60	605.00		705.00	2.40	699.00	.40			780.00	90	702.00	1 + 90	691.00	1.30
701-00	-1.00	633.00		740.00	-40	728.00	10					735.00	40		
		662.00	1.50	755.00	= · 20	738.00	60					747.00	-1.50		
		695.00	.10												
		718.00	-1.00												

DATE	730403	DATE	730612	DATE	730911	DATE	731219
8 R V V	106	9888	107	SRVV	108	9 R V Y	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
			*****				
308.00	10.80	309.00	10.90	293.00	12.40	288.00	12.80
344.00	11.30	347.00	11.60	317.00	11.50	315+00	10.30
394.00	10.00	393.00	10.50	340.00	11.50	33A+00	11.30
438.00	10.30	446.00	9.70	370.00	9.80	389.00	10.10
488.00	9.40	477.00	9.10	438.00	10.30	439.00	10.50
516.00	9.50	493.00	8.80	487.00	10.00	480.00	9.50
561.00	7.60	505.00	0.30	528.00	8.80	536+00	9.40
616.00	5,30	523.00	0.00	535.00	7,80	583.00	6.80
675.00	3.40	543.00	7.90	597.00		658.00	5.80
723.00	1.60	564.00	7.20	608.00	8.20	678.00	3,50
756-00	-,40	633.00	4.50	645.00	7,70	723.00	2.00
774.00	-1.50	683.00	3.00	670:00	8.40	746.00	1.20
		735.00	.90	700.00	6.60	768.00	.40
		779.00	10	748.00	5.20	790.00	0.00
		788.00	-1.00	767-00	0.00		
				779-00	-1-10		

PROFILE 17

DATE	720809	DATE	721003	DATE	721205	DATE	730103	DATE	730206	DATE	730213	DATE	730316	DATE	730324
SRVY	98	SHVY	9.9	SRVY		SHVY		5044	102	SRVY	103	5 P V Y	104	SHVY	105
TIME	1500	TIME		TIME			1200	TIME	1200	TIME	1200	TIME	1200	TIME	1200
71.00			22222	11-6	*****			****							
218.00	13.50	253.00	21.60	297.00	15.00	308.00	12.50	308_00	12.30	306.00	12.90	396.00	10.80	302.00	13.40
240.00	18.40	245.00	22.30	308.00		336.00	11,50	345.00	12.20	338,00	11,90	404.00	12.60	321.00	11.60
253-00	21.50	277.00	00.95	\$49.00		366.00	11.70	396.00	10,80	396.00	10.60	421.00	11.50	34R.00	12.60
270.00	22.40	241.00	19.10	396.00		396+00	10.50	430.00	10.70	453.00	10.60	446.00	12.20	371.00	11.00
283.00	20.60	299.00	13.40	434.00		453.00	10.40	482.00	9.90	50A,00	8.90	535.00	10.70	396.00	11.00
					9.80	484.00	9.70	530.00	8.40	558.00	6.80	558.00	9.60	448.00	10.40
30F+00	12.60	350.00	11.50	478.00								674.00		499.00	8.80
349.00	11.70	350.00	11.60	526.00		546.00	9.00	581.00	6.90	617.00	3 - 60		8.40		
396.00	10.50	396.00	:0.20	569.00	7.00	605.00	5.00	632.00		681.00	1.10	656.00	7.10	556.00	6.50
464.00	9.60	431.00	10.40	623.00	3.70	656.00	2.30	687.00	2.10	737.00	50	693.00	9.00	607.00	4.20
527.00	6.90	469.00	9.40	665.00	1.80	700.00	.80	732.00	.60	766.00	-1.90	730.00	3.00	672.00	5.50
590.00	8.80	514.00	8.70	714-00	1 - 1 0	741+00	0.30	762.00	-1.30			765.00	1.60	702.00	1.20
649.00	3.90	547+00	8.00	744.00	e B O	759.00	= 70					794.00	.40		
					.10	. 3						817.00	60		
669.00	1 = 10	559.00	6.40	754.00									-1.30		
691.00	40	567.00	5.80	763.00	05.0							840.00	-1030		
		596.00	6.60												
		619.00	8.40												
		637.00	*.40												
		031610													

DATE	730403	DATE	730612	DATE	730911	DATE	731719
SRVY	106	SHYY	107	3 P V Y	108	BHVY	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
309.00	12.50	323.00	11.40	306.00	17.40	308.00	12.50
352.00	12.30	352.00	13.20	373.00	11.40	336.00	11.50
396.00	11 - 00	396.00	10.70	351.00	12.00	346.00	12.70
435.00	10.70	438.00	10.40	340.00	11.50	396.00	10.90
495.00	9.10	497.00	8,90	396.00	10.90	434.00	11.20
548.00	7.20	540.00	7.80	431 -00	10.50	464.00	10.10
603.00	4 - 40	592.00	7.60	475.00	9.70	516.00	10.20
652.00	3.00	609.00	5.70	525.00	8,30	576.00	10.70
697.00	2.00	678:00	7.70	540.00	19.30	606.00	8.70
735.00	.40	694.00	9.20	542.00	9.30	646 = 00	5.90
765.00	90	719.00	4.80	666.00	8.50	700.00	3.10
781.00	-1.50	756.00	1.60	687.00	7.50	726.00	2.30
		769.00	10	688,00	5.90	749.00	1.10
		781.00	-1.10	733.00	2.60	766.00	. 40
			-	745.00	.60	782.00	20
				755.00	70		

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DATE	720809	DATE	721003	DATE	721205	DATE	730103	DATE	730206	DATE	730213	DATF	730516	DATE	730324
TIME	1200	TIME	1200		1200	TIME		Time	1200	TIME		TIME		TIME	1200
			******				22222		2500		1200		1500	****	1200
252.00	18,60	257.00	22.70	319.00	16.60	320.00	16.20	366.00	12.60	320.00	16.00	385.00	12.10	321.00	15.50
246.00	21.40	285.00	24.50	328.00	14.40	337.00	13.20	396.00		339.00	13.10	475.00		346.00	12.70
257.00	22.70	295.00		349.00	12.50	368.00		426.00		368.00	12.50	450.00	11.70	366.00	13.00
287.00	24.10	305.00		368.00	12-10	395.00	12.00	458.00	11.50	393,00	12.30	490.00		386.00	12.50
298.00	21.90	323.00		397.00	12.00	420.00	13.40	503.00	10.00	426.00	13.40	530.00		419.00	13.00
326.00	14.80	342.00	12.50	426.00	13.00	450.00	11.60	553.00		460.00	11.70	557.00		435.00	12.40
368.00	12.00	364.00	11.90	441.00	12.10	510.00	10.00	610.00	8,20	495.00	10.20	590.00		471.00	11.20
439.00	11.90	399.00	11.30	480.00	10.30	503.00	7.40	063.00	3,50	533.00	7.10	630.00		503.00	6.10
492.00	10.70	427.00		514.00	10.60	615.00	4.60	711.00	.50	591.00	3.20	652.00	1.90	555.00	1.40
544.00	8.10	488.00		550.00	10.10	675.00	2.70	733.00	-1.50	645.00	1.40	677.00	.50	595.00	.70
549.00	9.50	504.00	10.40	551.00	6.80	710.00	.20		-1630	682.00	- 70	701.00	.70	3.3000	* 1 0
629.00	5.20	526.00	8.70	617-00	3 - 10	742:00				693.00	-1-10	10100			
651.00	2.00	946.00	8.60	666.00	1 - 1 0		-10								
672.00	.50	552.00	8,40	690.00	0.00										
698.00	60	557.00	0.90	705.00	**50										
		592.00	7.70												
		614.00	4.30												
		645-00													

DATE	730403	DATE	730612	DATE	750911	DATE	731219
8 R V Y	100	SRVY	107	SRVV	108	SHVY	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
				****			
37.00	13.50	373.00	11.30	329.00	14.70	321+00	15.30
68.00	13.10	424.00	10.30	343.00	13.00	346.00	12.90
98.00	12.50	452.00	12.00	368.00	12.90	368.00	13.10
25.00	13.50	488.00	9.70	391.00	12.40	394.00	12.40
65.00	11.60	534.00	6.80	419.00	13.70	422.00	14.30
93.00	8.70	564.00	5.80	491.00	11.90	446.00	12.10
43.00	5.50	621.00	7.20	481.00	9.80	486.00	11.40
02.00	3.40	658.00	6.80	519.00	8.10	516.00	11.50
50.00	1.70	675.00	8.60	556.00	9.40	546.00	11.30
85.00	.50	698.00	1.20	598.00	10.70	573.00	8.70
13.00	= . A O	715.00	-1.40	606.00	9.80	616.00	6.20
40.00	-1.50	. 1 3 8 0 0	- 4 6 44 17	651.00	8,00	661.00	3.60
	-1850			692.00	5.30	681.00	2.70
				687.00	2.10	700.00	1.80
					.20	721+00	
				704.00		/21.00	10
				776.00	-5.00		

	*******											
DATE 72080 SRVV 98 TIME 1200	SHVY 94 TIME 1200	DATE 721205 SRVY 100 TIME 1200	DATE 730103 SHVY 101 TIME 1200	04TE 730206 SRVV 102 TIME 1200	DATE 730213 SRVY 103 TIME 1200	04TE 750316 SRVY 104 TIME 1200	DATE 73032# SRVY 105 TIME 1200					
203.00 10.64 232.00 17.45 258.00 26.66 270.00 27.66 317.00 16.3 3150.00 12.1 3150.00 12.1 3150.00 12.1 3150.00 12.1 3150.00 12.1 3150.00 12.1 3150.00 10.1 3150.00 10.1	289.00 26.50 309.00 16.50 356.00 12.00 393.00 12.00 405.00 12.00 405.00 12.00 435.00 12.50 455.00 11.20 466.00 11.00 568.00 10.70 568.00 7.30 769.00 7.70 726.00 4.20 746.00 1.00	313.00 10-50 320.00 14-20 321.00 12-20 323.00 11-20 375.00 11-20 403.00 10-20 402.00 13-30 402.00 13-30 402.00 11-10 500.00 11-10 500.00 11-10 500.00 11-10 500.00 11-10 500.00 11-30 500.0	326.00 14.10 332-00 12.40 377-00 11.40 378-00 12.40 406-00 10.40 488-00 11.00 511-00 11.00 558-00 11.10 609-00 6.80 608-00 7.20 718-00 3.40 772-00 1.90	320.00 12.20 302.00 11.60 302.00 12.80 404.00 10.30 405.00 15.10 403.00 11.20 534.00 11.20 576.00 10.60 606.00 4.70 611.00 4.20 622.00 3.80 724.00 .20 759.00 -2.00	326.00 14.10 340.00 12.40 346.00 12.40 356.00 11.40 356.00 11.40 404.00 10.70 404.00 11.50 404.00 11.35 518.00 11.35 573.00 11.20 625.00 7.66 672.00 5.77 726.00 2.00 7883.00 -0.00	320.00 13.90 301.00 12.00 303.00 12.00 401.00 10.80 421.00 13.50 430.00 13.70 430.00 13.70 5540.00 11.80 477.00 11.20 548.00 4.50 670.00 7.00 713.00 -1.00 734.00 -1.00	326.00 14.10 340.00 12.40 366.00 11.70 391.00 12.80 406.00 11.20 425.00 13.80 440.00 11.50 492.00 11.50 523.00 12.00 523.00 12.00 582.00 6.50 582.00 3.80 643.00 1.90					

DATE	730405	STAC	730612	DATE	730911	DATE	731219
BRVY	100	SHVY	107	SRVY	108	SHVY	109
TIME	1200	TIME	1200	TIME	1200	TIME	1200
			*****	****			22200
26.00	14.10	369 . 00	11.50	326.00	14.60	326.00	
	12.80						14.00
348.00		391.00	12.90	342.00	12.40	341.00	12.30
373.00	11.00	403.00	11.20	370.00	11.30	371.00	11.60
393.00	13.00	421.00	13.60	388.00	13.00	393.00	13,10
403.00	11.40	465.00	11.20	404.00	11.20	408.00	11.20
016.00	11.50	515.00	11.50	431.00	13.40	443.00	13.30
441-00	13.10	558.00	11.10	460.00	11.40	463.00	12.70
456.00	11.50	593.00	9.60	510.00	11.20	505.00	11.70
99.00	11.60	645.00	8.80	550.00	11-40	543.00	12.10
548.00	12.20	663.00	4.60	572.00	10.50	579.00	12.10
573.00	10.30	680.00	1.20		10.10	608.00	
				612.00			9.00
15.00	7.40	693.00	-1-10	644.00	9.50	635.00	6.50
55.00	4.30			649.00	6.50	683.00	2.50
706.00	1 - 40			680.00	1.30	705.00	1.30
750.00	-1.50			712.00	70	730.00	. 40
						746.00	10

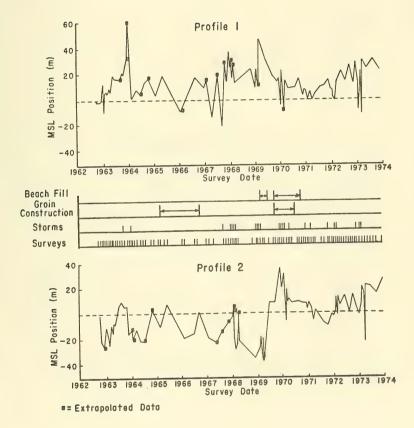
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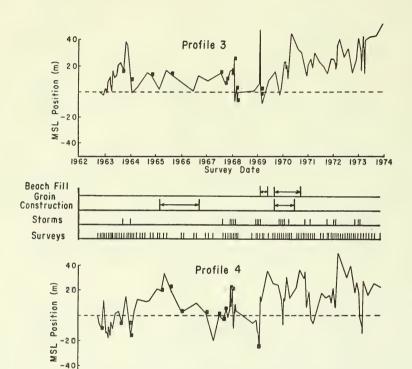
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8RVY	98	SRVY	99	SRVY		SHVY		Seve		SRVY			104	SHVY	105
TIME	1200	TIME	1200												
				TIME			1200	TIME	1200	TIME	1500	TIME	1200	11, E	1500
			*****	****	*****		*****	*	*****				*****	****	
212.00	05.15	275.00	26.40	301.00	20.30	326.00	15 50	320.00	16 40	326.00	15.60	326.00	15.30	324.00	15.50
242.00	18.30	288.00	23.50	326.00											
								374.00		366.00	11.60	360.00	11.00	349.00	13-20
270.00	26.40	300.00	50.50	367.00		398:00		431.00		424.00	10.00	418.00	9.80	363.00	11.50
277-00	56.50	326.00	15.50	411 - 00	9.50	451.00	10.20	481.00	10.90	490.00	10.90	468.00	10.30	388.00	10.80
300.00	20.10	360.00	11.70	454.00	10.30	513.00	10.70	537,00	11.00	550.00	11.10	506.00	10.70	421.00	9.60
326.00	15.40	400.00	9.70	497.00	10.50	583.00	10.40	574.00		598.00	10.90	568.00	10.70	465.00	10.20
369.00	11-00	454.00	10.10	543.00	10.60	623.00	6.90	637.00	A.30	650.00	8.30	613,00	10.10	511.00	11.10
421.00	9.60	501.00	10.60	581.00	10.90	673.00	7.10	708.00		695.00	7.60	658.00	8.70	550.00	11.10
476.00	10.50	568.00	10.60	615.00	10.70	721.00	3.40	730.00		743.00	1.90	693.00	7.10	000-00	0.20
531.00	10.50	619.00	10.30	653.00	9.90	751 - 00	.40	755.00	30	808,00	-1.20	723.00	2.00	638.00	5.40
586.00	10.40	671.00	7.60	676.00	3.20	767.00	-1.30					743.00	1.10	685.00	2.40
628.00	10.40	713.00	7.90	700.00	2.00							765.00	90	00000	
656.00	5.00	741.00	4.80	719.00	1.10							103600	- 0 - 0		
676.00	3.00	773.00	.50	737.00	.10										
710.00	1.00	795400													
			40	753.00	40										
736.00	40	807.00	∞.80												

DATE	730403	DATE	730612	DATE	730911	DATE	731219
SRVY	106	SHYY	107	3 P V Y	108	SHVY	109
TIME	1200	714€	1200	†J≈E	1200	TIME	1200
The state of							
326.00	15.40	394.00	10.00	360.00	11.70	326.00	15.40
364.00	11.40	445.00	10.00	401.00	9.80	358 - 00	11.90
404-00	9.90	496.00	10.60	453.00	10.00	378 . 00	11.10
446.00	10.10	53A.00	10.90	500.00	10.40	423.00	9,90
488.00	10.60	599.00	9.30	501.00	10.60	478.00	10.60
540.00	11.20	647.00	8.30	576.00	9.70	518.00	11.40
584.00	9.70	676.00	2.00	616.00	9.80	550.00	11.60
638.00	6.40	697.00	60	650.00	8,70	578.00	11.30
669.00	4,40			654.00	5.90	606.00	9.00
728.00	1 - 60			641.00	2.00	638.00	6.80
764.00	70			699.00	70	668.00	2.70
				712.00	-2.00	718:00	.80
						736.00	0.20

## APPENDIX C

MSL SHORELINE CHANGES





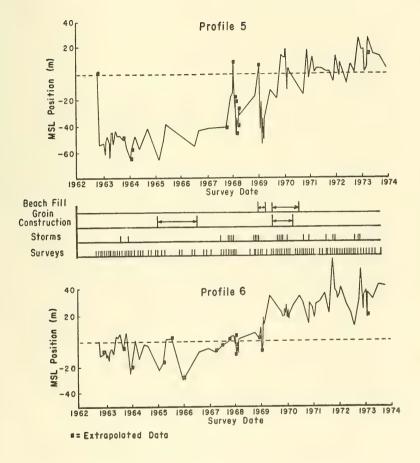
1966 1967 1968 1969 Survey Date 1970 1971 1972

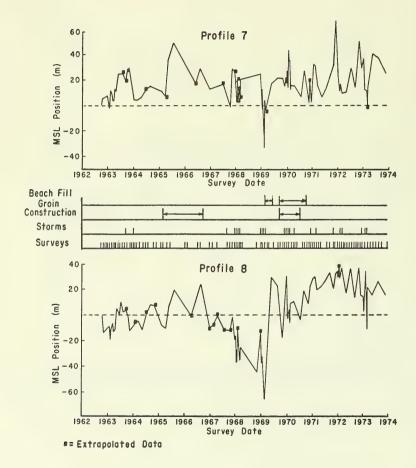
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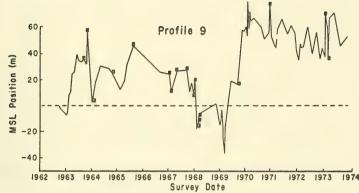
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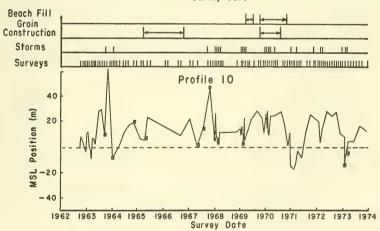
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1964 1965

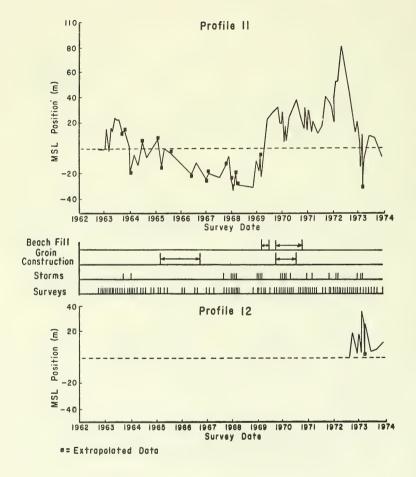


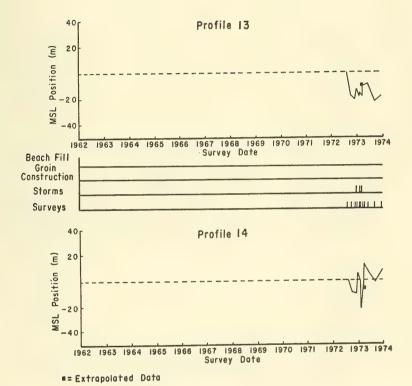


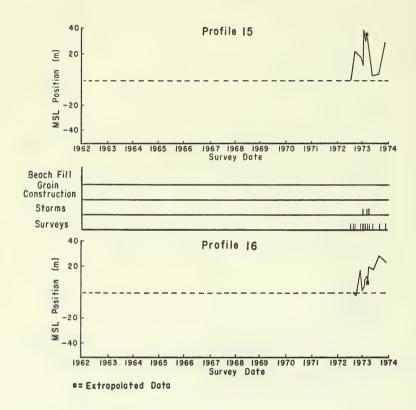


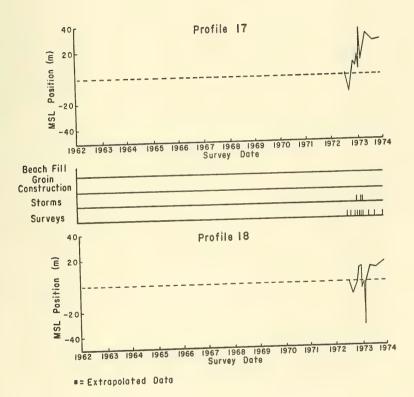


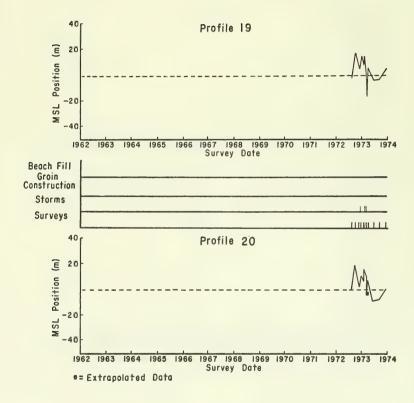
a= Extrapolated Data





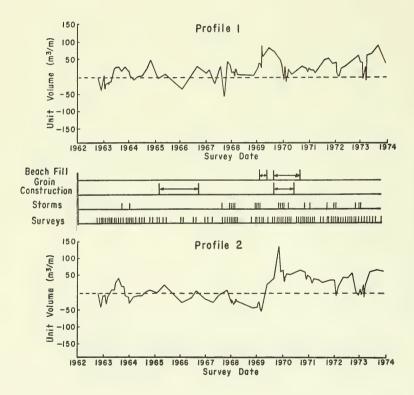


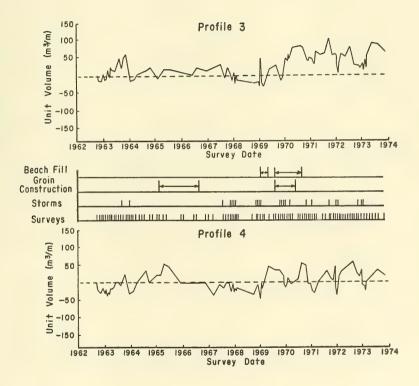


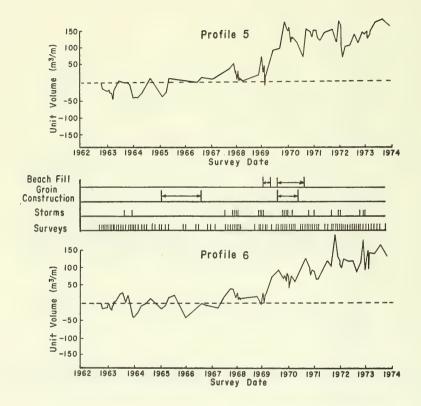


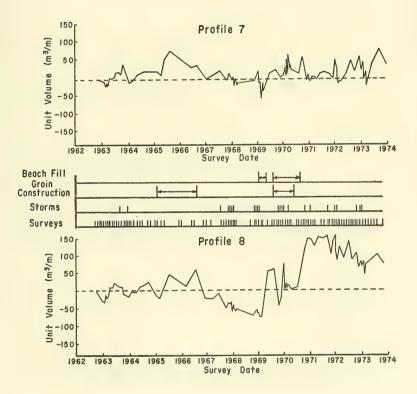
### APPENDIX D

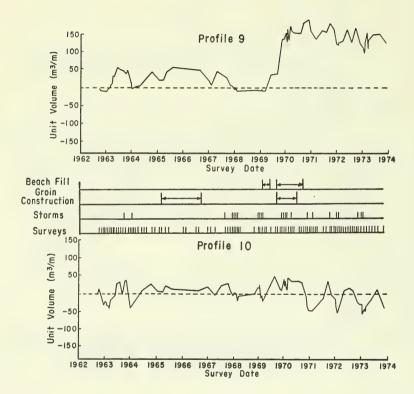
ABOVE MSL UNIT VOLUME CHANGES

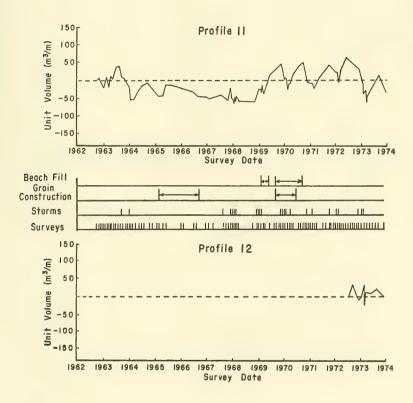


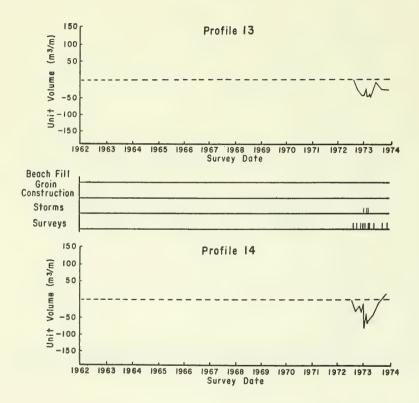


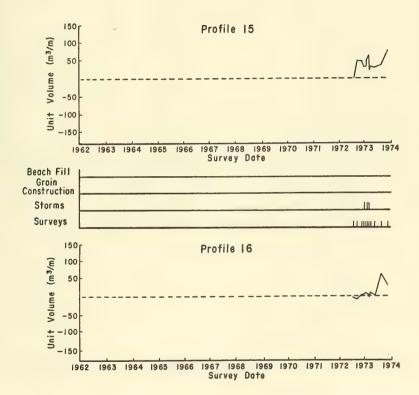


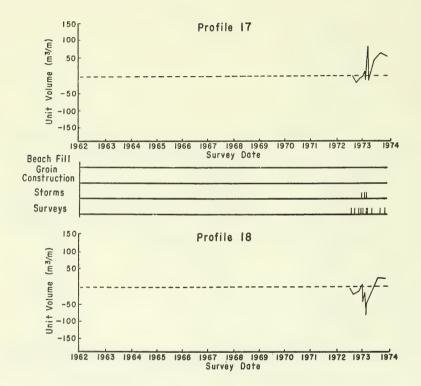


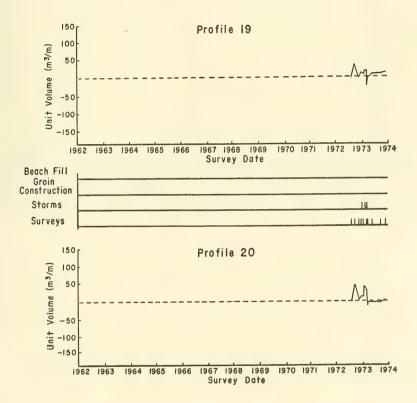








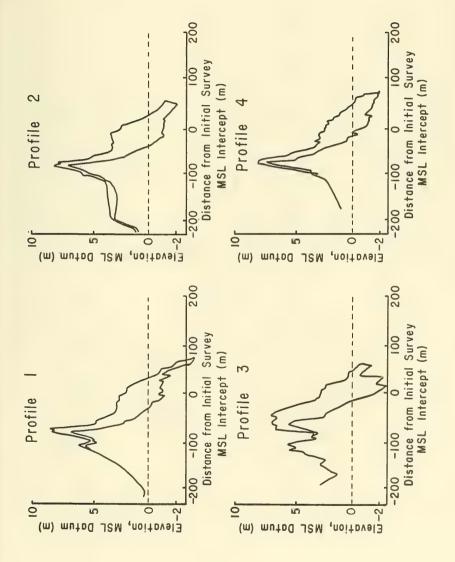


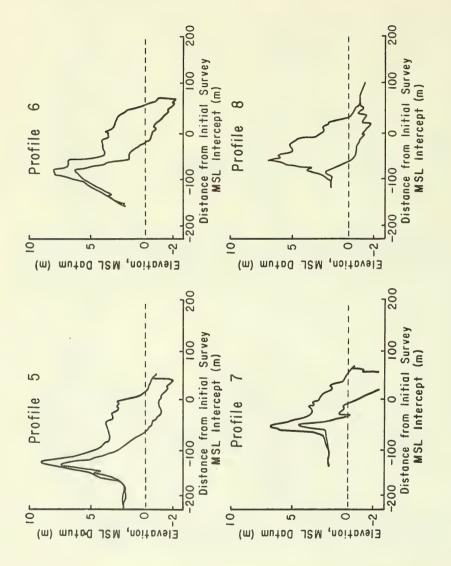


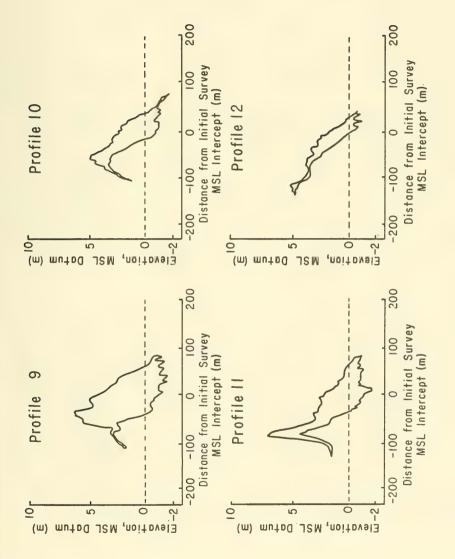
### APPENDIX E

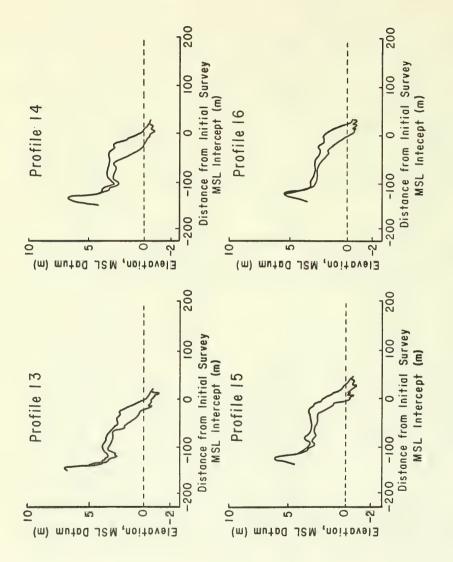
#### PROFILE ENVELOPES

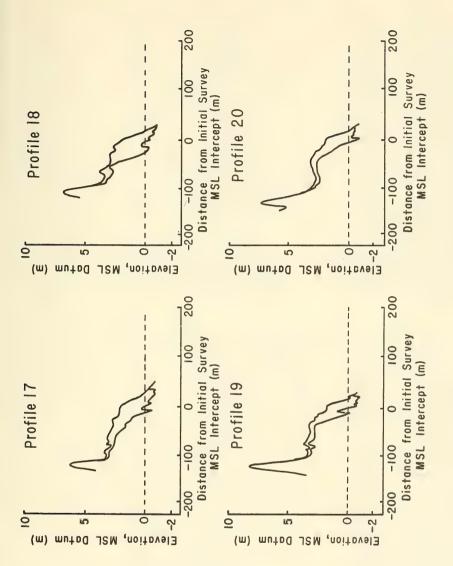
The profile envelopes in this appendix show the maximum and minimum elevations measured along each profile line. The seaward ends of the profile surveys have been connected by the automatic plotter, but do not represent actual profile closure. Since these are envelopes, the plotted upper and lower bounds do not necessarily represent a profile that existed during any of the surveys.













## DeWall, Allan E.

DeWall. - Ft. Belvoir, Va. : U.S. Coastal Engineering Research Center; Beach changes at Westhampton Beach, New York, 1962-73 / by Allan E. Springfield, Va. : available from National Technical Information Service, 1979.

DeWall. - Ft. Belvoir, Va. : U.S. Coastal Engineering Research Center; Springfield, Va. : available from National Technical Information

129 p. : ill. ; 27 cm. - (Miscellaneous report - U.S. Coastal

Engineering Research Center; no. 79-5)

Service, 1979.

Bibliography : p. 34.

Beach changes at Westhampton Beach, New York, 1962-73 / by Allan E.

DeWall, Allan E.

response of an unstructured beach to seasonal changes and storm events. The effects of a large groin field (construction started 3 years after

1. Beach changes, 2. Beach profile, 3. Groins, 4. Westhampton Beach, New York, I. Title, II. Series: U.S. Coastal Engineering

Research Center. Miscellaneous report no. 79-5.

the surveys were begun) and associated beach fill are included.

Report describes an 11-year study at Westhampton Beach, N.Y., which

began after the catastrophic storm of 5-9 March 1962, to measure the

129 p. : 111. ; 27 cm. - (Miscellaneous report - U.S. Coastal Engineering Research Center ; no. 79-5)

Bibliography : p. 34.

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Engineering Research Center; no. 79-5) Bibliography : p. 34.

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Research Center. Miscellaneous report no. 79-5.

# DeWall, Allan E.

Beach changes at Westhampton Beach, New York, 1962-73 / by Allan E. DeWall. - Ft. Belvoir, Va. : U.S. Coastal Engineering Research Center Springfield, Va. : available from National Technical Information

129 p. : ill. ; 27 cm. - (Miscellaneous report - U.S. Coastal Engineering Research Center; no. 79-5) Service, 1979.

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## DeWall, Allan E.

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1. Beach changes. 2. Beach profile, 3. Groins. 4. Westhampton Beach, New York. I. Title. II. Series: U.S. Coastal Engineering the surveys were begun) and associated beach fill are included, Research Center. Miscellaneous report no. 79-5.

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Engineering Research Center; no. 79-5)

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